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THE UNIVERSITY OF ALBERTA

A COMPUTER-ASSISTED LANDSAT INSTRUCTION PROGRAM FOR SOCIAL STUDIES EDUCATORS

by



LEE GRANT KENNEDY ARMSTRONG

A THESIS

SUBMITTED TO THE FACULTY OF GRADUATE STUDIES AND RESEARCH
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE
OF MASTER OF EDUCATION

DEPARTMENT OF ELEMENTARY EDUCATION

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The undersigned certify that they have read, and recommend to the Faculty of Graduate Studies and Research, for acceptance, a thesis entitled A Computer-Assisted Landsat Instruction Program for Social Studies Educators submitted by Lee Grant Armstrong in partial fulfilment of the requirements for the degree of Master of Education in Elementary Education.



ABSTRACT

This study involved the design, development, implementation, and evaluation of a computer-assisted instruction (CAI) program for social studies teacher education. The program instructed education students in Landsat satellite infra-red false color image interpretation.

The Landsat CAI program 'Omega' recorded each student's

performance as he or she progressed through the program. This information

was used to provide student feedback and to improve the design of the

program to enhance the learning experiences of subsequent groups of

students.

The results of the study indicated that students can learn to interpret Landsat satellite infra-red false color images with the aid of computer-assisted instruction. The findings also indicated that the majority of students who participated in the study expressed highly favourable attitudes toward the CAI program.

The conclusions reached in this study suggest that CAI may have potential benefit for social studies teacher education, in general and that more research is needed over a longer period of time with a larger sample to determine the implications of this type of training.

Specific research problems for further investigation were suggested.



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DEDICATED

To Dad, who always claimed I could never do it

To Mom, who always knew I would



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CHAPTER I

Man must rise above the earth to the top of the atmosphere and beyond - for only thus will he fully understand the world in which he lives.

(Socrates - 500 B.C.)

It took mankind over 2,000 years to confirm the validity of Socrates' statement. Today, with the aid of modern technology, man has indeed risen above his atmosphere, visited the moon and circled the globe. Since the launching of Sputnik in 1957, virtually thousands of satellites have been launched into space providing scientists with timely and accurate data about our environment, urban planning, geology, water resources and agriculture.

Socrates is also important for another reason. Father of the "Socratic" method of instruction, he individually taught his students by using a method of question and answer in what is now generally regarded as the highest form of individualized instruction. In the past, educators have tried to achieve the ideal of individualized instruction for every student. Contemporary educational researchers are still trying to achieve that goal. However, given current time, space and staff limitations facing most institutions of higher learning as a result of budgetary cutbacks, it is unlikely that the ideal pupil teacher ratio of 1:1 will ever be achieved.

Recent developments in computer-assisted instruction (CAI) would suggest however, that students can be taught individually in large groups at low cost. The introduction of CAI is not intended as a way of improving the instruction that takes place in the traditional classroom, but to provide an alternative to it.

The application of computer-assisted instruction to the field of social studies is relatively new. This feasibility study - computer-assisted land satellite imagery interpretation, is the first of its kind in map skill training in Canada.

The basic purpose of this study is to generate preliminary data with a limited sample of participants to determine the feasibility of carrying out further definitive research on the topic.

The various aspects of the problem under investigation are discussed in chapter one. Included in that chapter are the purpose of the study, definition of terms, rationale, implications for social studies, and delimitations of the study. Chapter two presents a review of the literature pertinent to the problem under investigation.

The third chapter deals with procedures and research design.

Chapter four contains the results of the study and discussion of the findings. The last chapter presents the conclusions and recommendations for future research.

THE PROBLEM

1. Purpose of the Study

The objectives of this study were to design, develop, implement and evaluate a computer-assisted instruction (CAI) program to teach pre-service teachers the fundamentals of Landsat satellite infra-red false color image interpretation.

The study involved the authoring of a computer-program to achieve the following objectives:

1) to develop a computer-assisted instruction course in Landsat satellite infra-red false color image interpretation, and



2) to determine if students could learn to interpret infra-red false color Landsat images with the aid of CAI.

II. Definition of Terms

<u>Cathode Ray Tube</u> (C.R.T.) the television like tube on which the text of all the material presented to the student is displayed; is often referred to as the screen.

Computer Assisted Instruction (CAI) is the name given to a teaching process which makes extensive use of a computer in presenting, testing and interacting with the student.

Constructed Response refers to the type of response whereby the subject fabricates or constructs his answer with external cues. This is in contrast to the multiple choice type of response where the answer is already constructed for him and he has only to recognize the response from a set of alternatives.

Composite False Color refers to the color produced on Landsat maps composed of data derived from different satellite spectrum scans of the same area.

<u>ERTS - Earth Resources Technology Satellite</u> formerly the name of Landsat satellites.

<u>Infra-red False Color</u> refers to that portion of the spectrum corresponding to infra-red, and used to delineate green vegetation on Landsat maps.

Landsat Map refers to a representation of the land surface of the earth produced with the aid of a Landsat satellite.

Landsat refers to Landsat satellites, scanning the surfaces of the earth from an attitude of approximately 929 km. high.

Non Visible Light Spectrum refers to that portion of the light



spectrum not visible to the human eye.

Near Polar Orbit refers to the orbit of a satellite where the path is nearly over the earth's poles.

Visible Light Spectrum refers to that portion of the light spectrum visible to the human eye.

III. Rationale

The need for better programs of pre-service and in-service education has been widely acclaimed in the literature related to professional growth in education. Hass (1957) demonstrated the need for in-service education in a discussion of factors such as rapid accumulation of academic and professional knowledge, the rapid cultural changes which characterize modern times, and the importance of making it possible for excellent teachers to make use of their creative abilities (pp. 13-34). Taba (1965) emphasized the need to revise current in-service practices. Among the implications Taba discussed, was a caution that providing content background to teachers without a simultaneous effort at instructional implementation does not assure that the background will be used in instruction, except perhaps in transmitting to students this knowledge in practically the same way it was received (p. 466).

In social studies teacher education, the last decade has produced a wide variety of instructional methods including the discovery, inquiry method, mastery learning, simulation and games. While it is true that such methods are currently valid, current research on social studies teacher education points out that "teacher educators are likely to use and rely on lecture and recitation methods in their



own classes" (Masemore, 1973, p. 97). Massialas and others have stated that the low interest of social studies teacher educators in research is to be lamented. It would appear then, that drastic surgery is needed if we are to maintain the interests of our students in our social studies programs (1975).

Given the current state of the art, it seemed reasonable to this writer to search out alternative models of social studies pre-service teacher education. Two relatively recent advancements in modern technology used together would seem to provide an acceptable alternative to traditional modes of instruction.

Landsat satellite maps are a new social studies resource and the accuracy and timeliness of these maps as well as their potential uses will help better prepare the teacher to understand and teach about our planet. In addition, the use of computer-assisted instruction to teach about Landsat satellite images will expose pre-service teachers to an alternate mode of instruction while at the same time demonstrating its potential in the field of social studies.

IV. Implications for Social Studies

The two most important characteristics of Landsat maps for social studies is their accuracy and timeliness. The ability to work with Landsat maps provides an excellent opportunity to examine timely accurate data on the natural resources of our environment. The identification of crops, detection of plant diseases, location of fresh water supplies, forest and wild life management, surface geology, sediment transport and the movement of ice are only a few of the interesting features that provide a new dimension of study for social



tation and CAI as a mode of instruction will enlarge the teaching repertoire of teachers.

The application of computer-assisted instruction to a wide variety of disciplines other than social studies is well documented (Hunka, 1978). The possibility of applying CAI to content areas in social studies merits examination.

V. Delimitations of the Study

1) This study was limited to a sample of twenty-two pre-service teachers enrolled in a senior social studies Curriculum and Instruction (Ed. C.I.) 413 course offered by the University of Alberta's Faculty of Education in the 1979 fall session.

Three factors contributing to the number of students in the sample were:

- a) The number of terminals available for use was limited by the heavy scheduling of other CAI courses by the Division of Educational Research Services.
- b) The difficulty of arranging a terminal time to suit students who were carrying more than one course.
- c) Time limitations imposed by other course requirements.
- 2) The use of infra-red false color images.



CHAPTER II

Review of the Related Literature

Computer-Assisted Instruction (CAI)

1. Computers and their use in Education

Computers and their use in the field of education are not a recent phenonemon. In the last decade there has been a steady flow of literature describing various studies where computer-assisted instruction has been applied to a given education situation (Hunka, 1978, p. 29).

The most important fact about computers is that they are here to stay and are not likely to go away. Third generation computers have come and gone since the computer genesis twenty years ago and the 'mini-computer' has signalled the arrival of the fourth generation computers in North America.

Thimbeley (1976: 241) noted that the computer is the only commodity that is steadily decreasing in cost while all others are steadily rising. Commenting further, Thimbeley noted that since the performance to cost ratio of mini-based systems in particular has increased by such a dramatic amount in the past five years, it is doubtful whether the costs of computers is a serious barrier to their use in the classroom - academic inertia appears to be the main obstacle (Thimbeley, 1976; p. 245).

2. Advantages of Computer-Assisted Instruction

Magidson (1977: 5) stated very succintly that the educational promise of CAI lies in its ability to individualize and personalize

the instructional process and to simulate experiences not readily available. Continuing, he described some of the advantages of computer-assisted instruction:

CAI lessons can serve as text, test and tutor while compelling students to be active participants in their own learning. Students can work at their own pace while their CAI program monitors their progress. Students are kept informed of their progress through immediate feedback and achievement summaries. Students have varying amounts of control over their learning in that they can review previous instruction, request special help, or continue on to enrichment activities. The instruction can be systematically prepared, sequenced, tested and revised (Magidson, 1977, p. 5).

3. CAI Instructional Strategies

Considerable dialogue has been generated among educators over the advantages of CAI versus traditional modes of instruction. Most CAI courses are currently being used to supplement and compliment traditional instruction, not to replace it, which makes it extremely difficult to compare CAI and traditional instruction. However, the learning theory underlying the instructional strategies of both modes of instruction is remarkably similar. Both CAI and traditional modes of instruction make use of Bloom's taxonomy of educational objectives.

With CAI, the specification of educational objectives and the application of learning theory to the following instructional strategies is paramount:

- 1) Drill and Practice this mode of instruction has proved to be the most widespread, probably because it is the easiest to prepare and can be used to free teachers from the drudgery of making up and checking practice exercises.
- 2) Tutorial in the tutorial mode, students are presented with instruction interspersed with



appropriate questions. Question formats are commonly multiple-choice, matching, fill in, and short answer. Sophisticated CAI systems can catch or allow for misspellings, judge as correct a variety of possible answers and even allow students to touch portions of the display to elicit a computer response.

3) Simulation - the simulation mode is perhaps the most exciting for it can allow the student to use the computer as a tool to discover and generate new information i.e. educational games (Hicks and Hunka, 1972, p. 67).

The hierarchy of capabilities that can be established by learning as described by Gagne (1974) are also incorporated into the CAI instructional strategies.

4. The Effectiveness of CAI

A goodly number of studies have been published attesting to the effectiveness of computer-assisted instruction (Hunka, 1976, p. 6). The majority of these publications cite the following reasons as to why CAI related learning can be useful:

- a) evidence of student achievement
- b) evidence of increased institutional productivity
- c) a variety of applications in many subjects and courses
- d) the teaching of computer literacy (uses and impact of computers)
- e) an outstanding computer science or data processing program, and
- f) an impact on other people and institutions (Kulik, JA and P. Jaska, 1977, pp. 12-19).

Published studies comparing the effectiveness of CAI to traditional instruction report conflicting results but generally conclude that CAI is more effective (fifty-five percent) than traditional instruction



(Kulik and Jaksa, 1977, p. 7). Almost all of these studies reported that students using CAI had highly positive attitudes toward their learning and that CAI learning requires less time.

Magidson (1978) conducted an extensive study of student attitudes toward the 'Plato' CAI system and reported the following results:

- Students who used Plato were highly positive in their assessment of the system
- They did not believe CAI to be dehumanizing
- They found its use helpful as a learning aid
- 4. They spent some of their free-time using it
- 5. They enjoyed using Plato, and
- 6. They experienced only minor difficulties operating the terminals and they believed computer and terminal breakdowns posed minor difficulties

5. Problems Associated With CAI

Without doubt, the effectiveness of CAI is dependent upon the quality and reliability of hardware, software and courseware. Following are some of the problems generally encountered by students using CAI as reported by (Ofiesh and Meierhenry, 1974, pp. 207-210).

- 1. Difficulty in operating terminals
- 2. Computer and/or terminal breakdown
- Insufficient terminal time at a single setting
- 4. Poor scheduling of CAI time
- 5. Difficulty in reading information from the CRT screen
- 6. Poor lighting conditions, and



Insufficient introduction to the CAI operating system.

The foregoing would suggest that there is a strong need to train pre-service and in-service teachers on how best to use CAI and how to work with instructional developers and other content specialists in preparing new courses. Further, it is important that teachers and administrators be made aware of the capabilities of this technology especially where it has been demonstrated that this technology can improve the quality of education.

Satellite Images

The use of Landsat infra-red composite false color images is a new resource in social studies. Robbins (1966) provided a clear picture of the impact satellites would have on education. "Teachers will have to change their traditional method of teaching geography and social studies in order to keep pace with modern technology and to fully understand the world in which they live".

Recognition by the National Council for Social Studies of Landsat as an important resource in social studies came a decade later with the appearance of an article in <u>Social Education</u> by William P. Nixon and Richard E. McCormack entitled "Landsat: A Tool for Your Classroom" (1977).

Kirman (1977) studied the use of infra-red composite false color images with teachers of grades three, four and five. He concluded that teachers for those levels were able to understand and teach about Landsat maps to their children. However, the level of instruction appeared related to the background knowledge of the teacher (Kirman, 1977, p. 23).



It would appear that the use of Landsat images as a resource in the field of social studies is increasing as evidenced by the growing number of educational materials. The following materials are available for teacher use in the area of Landsat image interpretation:

Brosius, Craig, A., Gervin, Janette C., & Ragusa, James M. Remote Sensing and the Earth. Titusville, Florida: School Board of Brevard County, 1977, p. 472.

This document was a cooperative effort between the Educational Programs Division of National Aeronautic and Space Administration (NASA's) Kennedy Space Center and the School Board of Brevard County, Florida. The document was developed to enhance student understanding of how remotely acquired data are obtained, analyzed and used. Activities for the senior high school student included map reading and analysis, characteristics of the visible spectrum and other areas relevant to remote sensing.

2. Kirman, Joseph M. Primer for Satellite Maps. Edmonton: Puckrin Publishing House, 1978, pp. 60.

This is essentially a resource kit for Elementary school teachers to introduce Landsat into their classrooms. The kit includes composite false color images of selected areas of Canada and the world, slides and teachers' guide.

Activities are aimed at introducing students to how the data is received, interpreted and used to help manage the environment.

3. Kopp, O.W. et al. <u>Elementary School Aerospace Activities:</u>

<u>A Resource for Teachers</u>. Washington: National Aeronautics

<u>and Space Administration</u>, 1977, pp. 127.

This document was the result of a cooperative effort between



the Educational Programs Division of NASA and the Department of Elementary Education at the University of Nebraska-Lincoln. Through a resource book for elementary school teachers on aerospace activities, the student is exposed to a variety of activities concerning the use of unmanned satellites, Skylab, the management of resources and the significance to earth of space exploration.

4. Petrillo, Anthony J. What's the Use of Land? Washington: National Aeronautics and Space Administration, 1976, p. 57.

This is a secondary school social studies project, in which activities are geared to show how NASA's space observations can integrate with other data sources in environmental education.

5. Tindal, Margaret A. Constructing a Landsat Photomosiac
Using Lattitude and Longitude. Greenbelt, Maryland:
Goddard Space Flight Center, 1977, p. 10.

This publication aims to assist students to construct a photo-mosiac using latitude and longitude and sets of Landsat pictures.

6. Tindal, Margaret A. Educator's Guide for Mission to Earth:

Landsat Views the World. Greenbelt, Maryland: NASA
Goddard Space Flight Center, 1978, pp. 59.

This educator's guide is designed to accompany MASA publication Mission to Earth: Landsat Views the World.

The teacher's guide is an effort to offer upper elementary and junior high school teachers some suggestions for using Landsat imagery in their classrooms. The materials included in the guide are organized around four broad content themes, namely 1) Earth Source-Geology; 2) Environmental Studies;



- 3) Geography; and 4) Social and Urban Studies.
- 7. Weinkauf, Ronald. Georgraphy on Landsat Images: Student Resources. Brookings, South Dakota: Ronald Weinkauf, 1976, pp. 22.

This is essentially a resource kit; activities aim at helping college level students understand how information about the earth is gathered from space, interpreted, and used to help manage our environment.

8. Vogt, Gregory L. Remote Sensing of the Earth with the Landsat Multispectial Scanner. Washington: NASA Lewis Research Center, 1977, pp. 28.

This is an activity guide to demonstrate how black and white and color satellite images are produced, transmitted to earth, and interpreted.

A mini-course series on the fundamentals of remote sensing is marketed by the Countinuing Education Administration of Purdue University in West Lafayette, Indiana. The series includes seven mini-courses, a study guide, audiotape and a set of slides. The Laboratory for Applications of Remote Sensing at Purdue, also has a program to provide digital analysis capabilities for remote sensing research.

The Educational Programs Division of the National Aeronautic and Space Administration in Washington has published a film catalogue of background audio visual materials. A number of technical publications by specialists in remote sensing have appeared on the market.

These range from Dorothy Harper's Eye in the Sky: Introduction to Remote Sensing (1977) to the Manual of Remote Sensing (Ed.) Robert G. Reeves, published by the American Society of Photogrammetry. Vol. Theory, Instruments and Techniques. Vol. 2 Interpretation and



Applications. Falls Church, Virginia, 1975. However, these documents are aimed at specialists in remote sensing and have limited appeal to educators.

While courses in remote sensing are being offered in thirteen Canadian Universities, all of them are offered by departments outside faculties of education and do not employ CAI as the mode of instruction.

Here at the University of Alberta, pre-service and in-service teachers are introduced to Landsat image interpretation in Social Studies Ed. C.I. 212 and 413 classes. It appears then, that the University of Alberta is the only Canadian Institution offering instruction in Landsat image interpretation to students specializing at the elementary school level.

In 1979, Project Omega was formed under the direction of Dr.

Joseph M. Kirman, Professor of Social Studies, Department of Elementary Education at the University of Alberta. Project Omega is an umbrella name for an on-going series of studies on remote sensing and applications in education. The scope of the project includes everything from training of classroom teachers and faculty of education undergraduates to the abilities of students to work with remote sensing technology.

There are currently three faculty members and one graduate student engaged in planning and research in Project Omega. Studies in progress include: children's perceptions of Landsat imagery; in-service Landsat training of science and social studies teachers by one-way television with telephone conferencing; capacities of students to work with black and white Landsat imagery; and a computer-assisted Landsat satellite interpretation instruction program.



Both the Alberta Remote Sensing Center in Edmonton, and the Canada Centre for Remote Sensing in Ottawa offer seminar type courses in remote sensing. However, their courses are geared to specialists outside the field of education and there are few teacher participants.

In summary, the review of the literature indicates that while computer-assisted instruction has been applied to a wide variety of educational disciplines, it is virtually absent in the field of social studies. Research on the effectiveness of CAI suggests that it is generally considered more effective than traditional modes of instruction but that there are a number of problems associated with CAI which students should be made aware of. Landsat infra-red composite false color images are a relatively new resource in social studies and where used, the traditional mode of instruction is employed.

While there are courses offered in Remote Sensing at several universities, they are all, with the exception of the University of Alberta, not geared to the preparation of pre-service teachers. It would appear that this study - a computer-assisted instruction program in Landsat imagery interpretation for pre-service teacher training is the first of its kind.



CHAPTER III

Procedures and Research Design

1. The Sample

A sample of twenty-two students was obtained from a class of preservice teachers enrolled in a senior course in social studies curriculum and instruction in the 1979 fall session of the Faculty of Education at the University of Alberta. All students participating in the study were enrolled as full-time undergraduates in the Bachelor of Education program.

II. Research Ouestions

For the purpose of this exploratory study, the following research questions were asked:

- a) Is it possible to develop a computerassisted instruction program to teach Landsat satellite map interpretation?
- b) Can pre-service teachers understand and derive information from Landsat satellite maps with the aid of a computer-assisted instruction program?

III. Design and Development of the CAI Program

A. The Program Language

The writer undertook an independent course of study in computerassisted instruction with the Division of Educational Research services
in the Faculty of Education. The CAI course entitled "Coursewriter
II" is designed to teach the coursewriter authoring language in
approximately twenty-five hours of CAI terminal time including ten
labs.

Upon completing the Coursewriter II course requirements, the writer commenced authoring the CAI Landsat satellite map interpretation program. The process consisted of the following eight stages:

- 1) Setting the objectives
- 2) Organizing the material
- 3) Preparing the material for the computer
- 4) Debugging the program
- 5) Trial sessions
- 6) Sessions with experimental group
- 7) Performance recordings
- 8) Documenting the program

B. Course Content

The material for the CAI course was gleaned from a number of different sources. The Alberta Remote Sensing Center in Edmonton and the Canada Center for Remote Sensing were particularly helpful in supplying pertinent literature.

The course was divided into ten segments. Each segment was broken down into topic areas. Following is a description of the topics which comprised the course:

- A. Segment 1 Introduction to remote sensing
- B. Segment 2 Landsat satellites
- C. Segment 3 Characteristics of wave bands
- D. Segment 4 Interpretation techniques
- E. Segment 5 Landsat imagery interpretation
- F. Segment 6 Winnipeg August image summary
- G. Segment 7 Winnipeg December image summary
- H. Segment 8 Image analysis equipment
- 1. Segment 9 Remote sensing agencies
- J. Segment 10 Final review options



C. The Human Factor

In the design of the programs, some consideration was given to the 'human factor' element. In most cases, the design of man-machine systems has been the sole responsibility of hardware-oriented engineers who often use only economic or physical science criteria, rather than those of a psychologist (Baker, 1971). Failure to realize the importance of this element may lead to difficulties in the implementation of the computer programs:

If the human factor is not properly valued, then morale problems after the system is operational may demand remediation. For example, if the task analysis of personnel in the training system result in overly specific and monotonous tasks, absenteeism, turnover, and other problems may result (Meany, 1972, p. 120).

Therefore, the design of this program was influenced by the need to personalize or humanize the nature of the course. For example, the student's first name was used in some screen displays of course material. In addition, the use of cartoons and humor were incorporated into the feedback messages of the program to help relieve any student monotony or boredom that might arise.

D. Debugging the Program

Five students volunteered to be tested on the CAI program in order to:

- 1) Debug the program, and
- Check the instructional strategy

The debugging process was continued with a second trial group consisting of three graduate students and two professors: one from the Division of Educational Research Services responsible for the IBM/1500 CAI system; the other, a Professor of Elementary Education



specializing in social studies. A final trial run was made using twenty-two volunteers from a senior social studies course (Ed. C.I. 413) offered in the summer session in the Faculty of Education at the University of Alberta.

Once this latter group of students had completed the program, the author made final revisions to the program based on their respective comments and criticisms and removed any remaining technical errors prior to using it with the experimental group. While stage four is normally reserved for the debugging of the program, additional debugging took place in stages five through seven.

IV. Curriculum Kit

Thirteen curriculum kits were prepared for use at the terminal with the CAI program. The following materials were included in the curriculum kit:

- 1) Winnipeg composite false color image August 26th, 1976, path 33, row 25
- 2) Winnipeg composite false color image December 6th, 1975, path 33, row 25
- 3) Standard road map of Winnipeg
- 4) Transparent numbered grid for use with the above-mentioned images
- 5) Magnifying glass

The images and road map within the curriculum kit were laminated so that the materials could be used by subsequent students.

V. Administration of the Course

Each student with the experimental group signing on to the course was given a short introduction to the use of the computer terminal.

Here the students received instruction in entering responses to



questions presented during the course, using both the light pen and the keyboard. During the terminal introduction, the program asked for the student's name which was stored and used later in the program.

The student was then given a brief introduction to the course itself. This section provided an overview of the course including the various topics in each of the ten segments.

The students were then instructed on how to branch to another segment in the course, should they wish to review. After each topic area had been covered, the student was given the opportunity to continue on to the next segment, or review the segment presented. The number of times a student made use of this learner control feature was recorded by the program. In addition to allowing the student to reinforce his comprehension of materials by reviewing, this feature also permitted the author to identify any weakness in instructional strategy and to revise the program accordingly.

Throughout the course, each student was asked a number of questions related to the course material. The student answered questions by typing a response on the keyboard, or by pointing at the answers with a light pen. The student had to enter a correct response to each question before being allowed to move ahead in the course. A student unsuccessful in obtaining the correct answer after two attempts, was given the correct answer and asked to type it in. The program kept a record of the number of questions to which the student had entered a correct response on the first and second attempt. If a student took too long in answering a question (timeout) or typed in an unrecognized response (UN), the program recorded his performance. This information was later used to improve the instructional strategy



and feedback messages in the program.

VI. Instruments

Four instruments were used in this feasibility study: a survey questionnaire prepared in cooperation with the Alberta Remote Sensing Center; an achievement test; a "Likert-type" attitudinal questionnaire and a written comment sheet prepared by the writer. All four instruments were administered by the writer.

The survey questionnaire and achievement test are subject to the following limitations:

- No previous comparable studies have been found utilizing Landsat satellite maps with pre-service teachers.
- 2. The purpose of this study is to determine if the participating students are capable of understanding and deriving information from infra-red false color Landsat maps with the aid of a CAI program.

A. The Survey Questionnaire

A survey questionnaire consisting of thirteen questions was administered to the sample group in class one week before participating in the CAI program. An overhead transparency of an infra-red composite false color image of Edmonton and surrounding area, July 14th, 1974, path 45, row 23 was used with the survey questionnaire. A sample of the survey questionnaire with corresponding answer key is included in Appendix A.

B. The Achievement Test

An achievement test consisting of twenty-five questions based on the content of the CAI program was prepared and administered by the writer in class five days after all students in the sample group had completed the CAI program. Two overhead transparencies of the



following infra-red composite false color images were used with the achievement test:

Calgary March 3rd, 1977 Path 45 Row 24
Calgary August 5th, 1975 Path 45 Row 24

A sample of the achievement test and corresponding answer key is included in Appendix B.

C. Landsat CAI Program Attitude Questionnaire

The attitude questionnaire used in this study consisted of fourteen items designed to measure student attitudes toward the Landsat image interpretation program with CAI as a mode of instruction. Students were required to respond to each item in terms of seven categories of agreement or disagreement. This type of questionnaire is often referred to as a "Likert-type scale" (Selltiz et al., 1965, p. 366).

Numerical values assigned to items ranged from one point for strongly disagree to seven points for strongly agree.

1) Limitations of Attitude Scales

The writer examined attitude scales developed by Likert, Thurstone and Gutman and selected the Likert-type scale as being the most appropriate for this study. However, Borg and Gall (1979: 110) caution that the majority of attitude scales are direct self-report measures and are subject to the following limitations:

- a) We can never be sure of the degree to which the subject's response reflect his true attitudes.
- b) An individual may not really know how he feels about an issue or situation.
- the may never have given the idea serious consideration, and
- d) An individual may conceal his real attitude, and express socially acceptable opinions.



In consideration of the above limitations, any results arising out of the use of the Likert-type attitude scale should be interpreted with caution. A sample of the Landsat CAI program attitude questionnaire is included in Appendix C.

D. The Written Comment Sheet

In order to obtain another measure of student opinions about

Landsat satellite image interpretation and CAI as a mode of instruction,

a written comment sheet allowing for response to four open-ended

questions was administered at the same time as the Likert-type attitude

questionnaire. A sample of the written comment sheet is included in

Appendix D.



CHAPTER IV

Results and Discussion

Results of the Investigation

1. The Survey Questionnaire

Members of the experimental group were asked to respond to a thirteen item questionnaire administered one week before participating in the Landsat CAI program. The mean score for the survey questionnaire was 1.636, the standard deviation, 1.524.

Responses to the three questions on the survey questionnaire pertaining to the student's prior knowledge of Landsat images before taking the Landsat CAI program indicated that only five students had ever worked with Landsat images before, and only two students in the sample had taken courses dealing with Landsat image interpretation.

All members of the sample group felt they had little if any knowledge of Landsat image interpretation.

2. The Landsat CAI Program

The Omega program recorded the following measures on each student.

- i) percentage of students covering all sections of the program,
- ii) percentage of questions answered correctly
 on first attempt,
- iii) number of time branching feature used, and
 - iv) amount of time to complete the program.
- I) Percentage of Students Covering All Sections of the Program All members of the experimental group covered the complete program in one or two sessions at the computer terminal within a five day period.

- ii) Percentage of Questions Answered Correctly on First Attempt
 Approximately 66% of the 26 questions concerning the course
 material were answered correctly on the first attempt by all students
 taking the program.
 - iii) Number of Time Branching Feature Used

The results indicated that this group of students made little use of the branching feature to review; only two percent of all possible branching options were executed by the experimental group.

iv) Amount of Time to Complete the Program

The mean time for all students to complete the program was 121 minutes; the standard deviation was 0.023. All results pertaining to section two of this chapter are summarized in Table 1.

3. The Achievement Test

An achievement test consisting of twenty-five questions based on the content of the Landsat CAI program was administered to the experimental group one week after all students had completed the CAI program. The mean score on the achievement test was 17, the standard deviation was 3.811. Percentages of students correctly answering each question and the results of the achievement test are shown in Table II.

4. Landsat CAI Attitude Questionnaire

The attitude questionnaire used in this study consisted of fourteen items designed to measure student attitudes toward the Landsat CAI program. Students were required to respond to each item in terms of seven categories of agreement or disagreement. Numerical values assigned to individual items ranged from one point for checking



TABLE 1

STUDENT PERFORMANCE MEASURES RECORDED BY THE CAI LANDSAT PROGRAM OMEGA

			Mean and/or %
i)	Percentage of Students Covering all Sections of Program	Ą	X = 100%
;;)	Percentage of Questions Answered Correctly on First Attempt 26 questions		$\overline{X} = 66\%$
iii)	Number of Times Branching Feature Used - Segment 1 - Quiz 1 - Segment 3 - Quiz 4 - Quiz 5 - Quiz 6 - Segment 9 - Segments 4 - 9 incl Complete Review		(9)* (1) (2) (2) (2) (5) (4) (6) (6)
	The total number of students using the branching option was 17.		
iv)	Mean Time to Complete the Program		X = 121 minutes S.D 0.23

^{*} denotes number of students exercising branching option



TABLE !!

ACHIEVEMENT TEST QUESTION ANALYSIS

uestion	% Correct	% Partially Correct	% Incorrect
1	68.15 (15)*	E	31.82 (7)
2a	81.82 (18)	<u> </u>	18.18 (4)
ь	81.82 (18)	qui est est	18.18 (4)
3 .	63.64 (14)		36.36 (8)
4	81.82 (18)		18.18 (4)
5	95.45 (21)		4.55 (1)
6	77.27 (17)	***	22.73 (5)
7	50. (11)		50. (11)
8	59.09 (13)	100 EM 500	40.91 (9)
9	72.73 (16)	ee e e ee	. 27.27 (6)
10	63.64 (14)		3 6.36 (8)
11	77.27 (17)		22.7 3 (5)
12	40.91 (9)	9.09 (2)	50. (11)
13	86.36 (19)	Mai gas 1991	13.64 (3)
14	72.73 (16)		27.27 (6)
15	59.09 (13)	W 80 50	40.91 (9)
16	63.64 (14)	m == ==	36.36 (3)
17	68.18 (15)		31.82 (7)
18	72.73 (16)		27.27 (6)
19	40.91 (9)	36.36 (8)	22.7 3 (5)
20	50. (11)	22.73 (5)	27.27 (6)
21	50. (11)	9.09 (2)	40.91 (9)
22	86.36 (19)		13.64 (3)
23	72.73 (16)	9.09 (2)	18.18 (4)
24	36.36 (8)	4.55 (1)	59.09 (13)
25	36.36 (8)		63.64 (14)

^{*} Brackets denote number of students

N = 22

Range = 11-23



strongly disagree to seven points for strongly agree.

The results of the student attitude questionnaire clearly indicated that the students viewed the program favourably. On the average, over 80% of the students rated each of the evaluation items as a four or better on the Likert scale ranging from one - strongly disagree to seven - strongly agree with the statements presented.

The majority of students felt the course was useful in helping them to learn the material; that taking the course was a good investment of their time, and would recommend the Landsat CAI course to other students. Few students had been taught any portions of the material previously. While the majority of students felt the course was reasonably easy to understand and had a good basic knowledge concerning Landsat satellite images, the same students expressed the need for more instruction to improve their ability to interpret satellite images. The items which received the highest rating concerned the students attitudes toward CAI: the majority liked taking the Landsat course via computer-assisted instruction; found the course interesting, and expressed a desire to take other courses via CAI. The results clearly indicated that the majority of students preferred CAI as a mode of instruction over the traditional lecture method and would themselves, as future social studies teachers, teach Landsat image interpretation with the aid of CAI. The results of the student attitudinal questionnaire are summarized in Table III.

Scores on the attudinal questionnaire were then compared with scores on the achievement test. There was no statistical correlation between scores on the Likert type attitudinal questionnaire and scores on the achievement test at the .01 and .05 Alpha levels.



TABLE 111

MEANS AND STANDARD DEVIATIONS OF LIKERT TYPE ATTITUDINAL QUESTIONS AND CORRELATIONS AND PROBABILITY LEVELS BETWEEN ACHIEVEMENT TEST AND LIKERT TYPE ATTITUDINAL QUESTIONS

Likert Question	Mean	Standard Deviation	Correlations with Posttest (r)	Probability . Levels (p)
-	4.500	1.530	0.347	0.114
2	5.182	1.336	-0.009	0,969
٣	4.773	1.241	0.394	0.069
4	1.500	1.118	-0.005	0.981
2	6.455	0.782	-0.099	0.661
9	5.818	1.029	0.104	0.644
7	5.773	1.346	-0.230	0.302
œ	3.545	1.827	-0.222	0.321
σ	5.136	1.179	0.192	0.392
10	5.091	1.276	0.341	0.120
=	3.818	0.886	-0.269	0.226
12	4.273	1.052	0.187	0.405
13	5.182	1.556	0.234	0.295
14	5.273	1.601	0.324	0.141

N=22 DF=20



5. Student Written Comments Sheet

All members of the sample group were provided with the opportunity to express in writing their comments as to their experience with the Landsat CAI program. The students were asked to respond to the following four questions:

- What is your opinion of the Landsat CAI program?
- 2. What problems, if any, did you experience while taking the program?
- 3. How might the CAI program be improved?
- 4. Would you as a future teacher of social studies teach Landsat satellite image interpretation by the traditional lecture method or by computer-assisted instruction? Give reasons for your answer.

Question One What is your opinion of the CAI Landsat program?

The findings indicated that 20 students responded positively to the CAI program; one student was neutral in his response and one student was negative in his attitude toward the CAI program.

Question Two What problems, if any, did you experience while taking the program?

Fourteen students indicated they experienced some problems while taking the program; three students did not experience any problem and five students did not respond to the question.

Question Three How might the CAI program be improved?

Fourteen students responded to this question.

Question Four Would you as a future teacher of social studies teach Landsat satellite image interpretation by the traditional lecture method or by computer-assisted instruction? Give reasons for your answer.

Fourteen students indicated they would teach Landsat image interpretation by computer-assisted instruction. Four students indicated



they would use both CAI and the lecture method and four students indicated they would teach Landsat image interpretation using the traditional lecture mode of instruction. Responses to these four questions are summarized in Table IV.

Discussion of Results

1. The Survey Questionnaire

The mean score of 1.636 and standard deviation of 1.524 suggests that all students in the sample had little, if any, prior knowledge of Landsat image interpretation. Further, the survey questionnaire scores of the five students who indicated they had either worked with or had taken courses dealing with Landsat image interpretation, were not significantly different from those students who had no prior exposure to the subject. Further, the achievement test scores of these five students were not significantly different from the scores of those students who had no prior exposure to Landsat satellite images. It would appear from the foregoing, that what little prior knowledge these students claimed to have, did not effect their performance.

expressed the view that at the time the survey questionnaire was administered, their knowledge of Landsat satellite images was very meager.

2. The Landsat CAI Program

The average student time to complete the CAI program was 121 minutes, the standard deviation 0.23, the range 39 minutes to 212



TABLE IV

STUDENT RESPONSES TO FOUR QUESTIONS ON COMMENT SHEET

CUESTION 1	QUESTION 2	QUESTION 3	QUESTION 4	
Has promise	Wanted to ask questions	Ask more questions	Both	- CAl is confusing by itself
Very good	Too many facts	More explanation		- Would do follow-up in
Excellent	Its a chore to take notes	Give a brief surmary		- More enjoyable, exciting
Enjoyable, great addition	Difficulty interpreting images, can't see anything	0k as is	_	- Can compare techniques
Fine	Cannot type fast	× 0		- Advantages to both
× 0	Nervous	Broader answers		- Good to vary one's
Very Challenging	No background	More questions		technique
Good source of information	No problems	More questions	Traditional -	
Very good	No problems	More time to study images		schools
Interesting	Takes too long	4-	Traditional	 More studies need to be done in CAI
goog	Sore eyes		5.01	100 to 320 00 to 300 00 to
Interesting	Need a glossary of terms			
Very interesting	Define terms		CAI	- Holds children's attention
All right	More review		CAI	- No explanation provided
Useful technique	Provide definitions		CAI	- More Interesting
Boring			Both .	- Teacher can provide added dimensions
Very interesting				 Nobody talking at you, its lots of fun
•			CAI	- Immediate feedback
			Both	- Cannot ask questions
			Traditional -	Need a voice
			CAI	- No explanation provided
	-		CAI	- No explanation provided
N=22 20 Pesponses	16 responses]] responses	19 responses	
•				



minutes. Only one student completed the program in 39 minutes and one student in 212 minutes. The mean time of 121 minutes is more representative of the majority of students. The range of time demonstrates the capacity of CAI to allow for different paces of learning by the students.

The collection of data on each student's performance is an important characteristic of CAI. Such information is available for use by the instructor, for student feedback, and for research purposes. For the purposes of this study, the performance recordings permitted examination of differences between students who took the program. In addition, the use of performance records enabled the author to detect technical programming errors and were an invaluable aid in determining which parts of the program were poorly designed, particularly in regard to certain question items, and in deciding what improvements could be made to the program. For example, the parameters for acceptable answers to selected questions were, on several occasions, expanded as a result of student feedback during trial runs. In response to the question "What do the small while rectangles alongside the Winnipeg River indicate?" the range of acceptable answers included forest clearing, wood cutting, forest cutting, and timber cutting. Three students typed in lumbering which is an equally acceptable answer.

15 students (68%) of the sample, answered the 26 questions which dealt with the course material correctly on the first attempt. Undoubtedly, this proportion would have been higher but for some technical errors which resulted in lower scores for some students than would have been the case.



An analysis of the performance recordings revealed that some of the questions were poorly presented or that the student did not fully comprehend the automatic introductory instructions on how to use the key board and light pen at the computer terminal. For example, some of the questions were designed to accept a light pen response. On several occasions, three response alternatives to a given question were placed on the screen under which was the instruction 'Point to a, b or c.' Several students pointed to either a, b or c in this instruction, rather than one of the choices above it. Because the program was designed to accept a light pen response only where the choices were located, these student's responses were recorded as incorrect or unrecognizable for their first attempt. Had some of the question items been presented more clearly, then the proportion of students responding correctly to those questions would have been higher.

The type of feedback message given to students after their initial response would also seem to influence the accuracy of subsequent responses. It is difficult to maintain the delicate balance between providing too little or too much information in constructing feedback messages. More research on the effect of feedback messages on student response is needed.

In general, the results indicated that a large portion of the questions concerning the course material were answered correctly on the first attempt. Inability to type, or use the keyboard and light pen properly also appears to have contributed to the lowering of scores. The achievement test scores of those students who experienced problems operating the terminals were about ten percent lower than



those students who did not experience any difficulty. Specific student suggestions on how the Landsat CAI program might be improved will be dealt with later in this chapter.

The results indicated that the program's branching feature was little used by the students. Out of the nine possible branching features available in the program, less than two percent of the sample exercised this feature of the program. While less than two percent of all possible branching options were executed by the sample, the fact that some students used this feature more than once suggests that it should be kept as part of the program for those students who would like to make use of this feature. Because of the heavy schedule of CAI courses currently offered by the Division of Educational Research Services, the amount of time available to the student to complete the program may have influenced his or her decision to execute the branching feature. In response to suggestions made by a number of students in the experimental group, the branching function within the CAI program was re-examined and modifications were made where deemed necessary.

3. The Achievement Test

Results of the achievement test indicate that the objectives of this feasibility study was achieved. Pre-service teachers can understand and derive information from Landsat satellitle maps with the aid of computer-assisted instruction. The mean score of 17 on the achievement test attests in some measure to the effectiveness of the Landsat CAI program.

Generally speaking, the majority of questions on the achievement



in three areas: characteristics of wave length bands, straight factual information and interpretation.

Questions 15, 16 and 17 dealing with characteristics of wave length bands caused the students some problems. The characteristics of each wave length for bands, 4, 5, 6, and 7 were explained at length in the CAI program and the students were examined on this concept shortly after it was presented. The response analysis for these questions on the posttest would suggest that while students were aware of the individual characteristics of each wave length band, they got them confused. The time lapse between completion of the CAI program and the writing of the posttest may have had some influence on the ability of students to recall the associated characteristics with a particular band number. Modifications were made to the program to highlight the individual band wave length characteristics after all students completed the program and wrote the achievement test.

Questions 19, 20, 21 and 24 also caused the students some minor problems. These questions asked the student to recall straight factual information dealing with various services offered by remote sensing agencies. Analysis of student responses suggest that many of the students knew the services provided by the agencies, but confused them with one another. Modifications were made to the program to highlight for review purposes, the services offered by the remote sensing agencies.

One of the suggestions put forth by the students was to include a glossary of terms in the Landsat CAI program. This suggestion I



believe, is a good one and should serve to help individual students

to better comprehend concepts covered later in the program. The

program was modified to include a glossary of terms.

Some students experienced minor difficulty with questions 1, 3, 7 and 12 dealing with the interpretation of satellite images. Analysis of the responses to the above-mentioned questions suggest that while the majority of students were aware that water is generally shown as black on a composite false color image, it can also appear in various shades of blue depending on the amount of sedimentation in the water. The section of the program dealing with sedimentation was re-examined and changes were made accordingly.

Few students (8) remembered the scale of Landsat satellite images in response to question 25. Further, several students experienced perceptual problems in interpreting satellite images. Not all students comprehended the fact that Landsat satellite photographs of the earth's surface are taken from a distance of approximately 929 km above the earth, and thus experienced some perceptual problems in attempting to interpret the images.

4. The Landsat CAI Attitude Questionnaire

Earlier in this thesis I alluded to some of the limitations that are associated with the use of attitude questionnaires, suggesting that any results that are reported, should be interpreted with caution and supported, where possible, by other measures. The writer used a written comment sheet which allowed for responses to four open-ended questions as an additional measure to cross-check information obtained from the "Likert-type" attitude questionnaire. Following are some generalizations that can be drawn from the results obtained from the attitude questionnaire.



The results of the study clearly indicate that the majority of students in the experimental group with their limited background and prior knowledge of Landsat satellite imagery, viewed the 'Omega' CAI program favourably, found it to be effective, and a useful and worthwhile experience. These same students found the course sifficiently interesting and stimulating to want to obtain further instruction in satellite imagery interpretation. This fact would tend to support current research findings which suggest that teachers who are exposed to CAI in conjunction with classroom instruction, are usually desirable of more indepth instruction in the same subject matter (Hunka, 1976, p. 18).

Certainly the students in the experimental group recognized the difficulty, and at the time of this writing, the impossibility, of having a CAI system installed in every school. However, given the opportunity, as future teachers of social studies, they would make definite use of this technology. The important thing here is that exposure to both computer-assisted instruction and satellite imagery interpretation has enlarged the student's repetoire of resources.

Previously in this chapter, I stated that the scores on the Likert attitude questionnaire were correlated with scores on the achievement test at the .01 and .05 Alpha levels. The results suggest that we cannot predict with any degree of accuracy that a student who responded positively toward CAI on any of the 14 variables, will also perform well on an achievement test. Stated another way, there is no statistical significant correlation between scores on the attitude questionnaire and scores on the achievement test.



5. Student Written Comment Sheet

Being aware of the possibility of various shades of nuances which might be attached to various expressions used in the student's responses, the author cross-checked their choice of words with their attitudes expressed on the Likert questionnaire to make sure that what the students expressed in writing was congruent with their attitudes previously expressed. It may be stated that the written responses of the students show a high degree of congruency with their previously expressed attitudes on the Likert attitudinal questionnaire.

Responses to question I confirm current research findings that students who are exposed to CAI for the first time are highly favourable toward this mode of instruction. Further, the novelty of the Landsat CAI program would appear to have the staying power that is common to most CAI programs which generally lasts throughout the course (Hunka, 1976, p. 17).

Student responses to question 2 were comparable to the responses of the several hundred students who have participated in the introductory statistics course "stats-l" via CAI. These responses ranged from:
"I wanted to ask questions, I was nervous, had no background, to I cannot type and had sore eyes." It should be noted that many of the problems experienced by the students are related to factors of emotion and discomfort rather than being a reflection on the Landsat CAI program.

It seems clear from the general comments, that the students were fairly apprehensive about being exposed to two forms of modern technology at the same time. While the majority of students enjoyed the program, there was an initial period of uncertainty or uneasiness that prevailed during the early stages of the course. However, this seemed to dissipate as the students became more actively involved



with the computer. Dr. Hunka, coordinator of the Division of Educational Research Services expressed the view that the anxiety level of many students generally rises when beginning other CAI courses offered by DERS and usually subsides as students progress through the program.

It was mentioned at the outset of this thesis that CAI is an ____ alternative to, not a replacement for the traditional lecture mode of instruction. The majority of students taking the Landsat CAI program felt strongly , the need for an instructor or competent person to be available in the terminal room to respond to questions. The writer made himself available in the terminal room throughout all student sessions. Of the few questions that were asked while students were in the terminal room, the majority related to the functioning of the terminal as opposed to the content of the CAI program. During the student sessions at the terminal, several students complained of sore eyes resulting from glare or reflection off the cathode ray tube and satellite images. Investigation of these and other problems relating to perception would seem to be called for.

Student responses to question 3 were very helpful although less than half the sample responded. Their specific suggestions can be cagegorized into the following areas: more questions, more inter-action, a glossary of terms, and different explanations when reviewing material.

An analysis of the student performance recordings and instructional strategies in the program would seem to call for the inclusion of more questions in the program. More interaction is needed as each topic is covered to maintain student interest and comprehension of the course material. Further research is recommended in this area.



Several students suggested that the number of branching options

be increased and that less material be covered before a review option

is made available. Because little use was made of the branching option,

more research is required to determine if this aspect of the program is

useful and effective.

These results permitted the writer to re-examine the Landsat CAI program and to make some modifications to the program to better serve and enhance the learning experience of subsequesnt groups of students. The importance of incorporating user suggestions into the program cannot be underestimated. However, additional research is necessary to evaluate the effect of these modifications with a larger sample. It can, and has been aroued amongst interested CAI authors that the design of a CAI program is never complete (Hunka & Romaniuk, 1979). There is always something one can do to improve the program as a result of student feedback and the analysis of performance records. This study is not exempt from that statement.

Student responses to question 4 did not bring any surprises.

As expected, the majority of students indicated a preferance for CAI as a mode of instruction, while others preferred both the CAI and traditional lecture method. Until CAI can be installed in the schools on a large scale basis with ongoing research and evaluation, it is understandable why some students in the sample preferred the traditional lecture mode of instruction. Still there were some skeptics in the sample and justifiably so; CAI as a mode of instruction is only one of many interesting and stimulating forms of instruction. It is worth noting however, that teacher inertia (which may have various causes) is one of the outstanding deterrents to the use of the newer media (Gillett, 1973, p. 83).



In summary, the results of the achievement test showed that students can understand and derive information from Landsat satellite images with the aid of computer-assisted instruction. The results of the student attitude questionnaire revealed that the student's felt the course material was interesting and well presented, that they benefited from taking the course, and that they would not hesitate to recommend the 'Omega' CAI program to others. In addition, the majority of students indicated they would teach Landsat satellite image interpretation with CAI or both the CAI and traditional lecture methods. Specific student suggestions to improve the CAI program gleaned from their written comments, have been incorporated into the Landsat CAI program.



CHAPTER V

Conclusions and Recommendations

The results of the study showed that a computer-assisted instruction program can be developed to teach Landsat satellite image interpretation. Secondly, the results clearly demonstrated that students can understand and derive information from Landsat satellite images with the aid of CAI.

The findings also revealed that the majority of students in the sample expressed a highly favourable attitude towards the 'Omega' CAI program. Consequently, another conclusion reached from this study was that the Landsat CAI program could be a beneficial addition to a social studies teacher education program.

The study also demonstrated that CAI can be used to present the Landsat course material in a detailed and well organized manner, which suggests that other programs could be developed that have particular significance for social studies. In addition, the study has shown that the quality of a CAI program can be continually upgraded through the acquisition of information obtained from the students' performance recordings. In this regard, the precise monitoring of each student's performance during the course cannot be equalled by the traditional lecture and examination approach.

Recommendations for further research

From the results of this exploratory study, it is recommended that more research on CAI in the social studies be conducted.

Following are some suggested research problems for further investigation:

- 1. Will multistudent performance at a single terminal result in higher achievement scores than a single student at a single terminal?
- 2. Can students understand and derive information from black and white Landsat satellite images with the aid of CAI?
- 3. Is there one optimum CAI instructional strategy for working with Landsat satellite images?
- 4. To what extent do student perceptual problems effect their learning of CAI course material?
- 5. Is learner control (the freedom to move about in a program) a desirable feature of a CAI program?
- 6. In what other content areas in the social studies can CAI be applied?

In summary, the two objectives of this study have been achieved.

A Landsat satellite computer-assisted instruction program was developed to teach satellite imagery interpretation, and students were able to understand and derive information from Landsat satellite images with the aid of CAI.

Afterthoughts

The Landsat satellite program 'Omega' is now part of the operational CAI system in the Division of Educational Research Services. A second group of social studies Ed. C & I 413 students have completed the Omega program. A general survey of the attitudes of this second group of students toward the Landsat CAI program support and confirm the results of the earlier exploratory study.



FOOTNOTES

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An ERIC computor search (CIJE and RIE) was made using the following search code: Teacher Education, Map Skills, Location Skills, Social Studies. In addition a search was made using the RESORS system (Canada Centre for Remote Sensing Computor Based On-Line Document Retrieval System), the Canadian Education Index and Education Index.

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APPENDICES

APPENDIX A

THE SURVEY QUESTIONNAIRE WITH ANSWER KEY

THE UNIVERSITY OF ALBERTA

Department of Elementary Education

SURVEY QUESTIONNAIRE

Name
INSTRUCTIONS
Please fill in the answers to the questions in the space provided.
l. What is it that you are looking at (be specific).
2. How do you think this was created?
Have you ever worked with this before? Yes No If yes, how?
4. What features do you see under Grid number1
5. What features do you see under Grid number <u>12</u> .



What does	the color	red on thi	s projectio	n indicate:	?
What do t	he small r	ectangles s		s projectio	on indicate?
Under Gri	d <u>8</u> ,	what does t	he black in	dicate?	
Under Gri	d <u>15</u> ,	what does t	he bluc ind	icate?	
What do y	ou think t	he <u>normal</u> s	cale of thi	s projectio	on is?
Have you at? No	ever taken Yes _	any course If y	s that deal es, give pl	t with what	t you are lo urse number.
My knowle	dge of pro	jections of	this natur	e is:	
					ery extensiv



Survey Questionnaire Answer Key

Question

- l Landsat satellite map (image
- 2 Satellite photograph
- 3 n/a *
- 4 River
- 5 City
- 6 roads
- 7 vegetation
- 8 Farms or farmland
- 9 Water or lake
- 110 water or lake with sedimentation
 - ll l:1 million
 - 12 n/a
- 13 n/a
- ¥ J.

* denotes - not applicable



APPENDIX B

THE ACHIEVEMENT TEST WITH ANSWER KEY

THE UNIVERSITY OF ALBERTA

Department of Elementary Education

Landsat C.A.I. Program

ACH IEVEMENT TEST

NAME	

Instructions

Please fill in the answers to the questions in the space provided and/or circle the letter which <u>best</u> indicates your choice of answer.

*NOTE - There will be two transparancy projections used during the post-test.



Two a	areas on this image are white in color.
(a)	Name the Grid number within which there is evidence of cloucover.
(b)	Name the Grid number within which there is evidence of snow
What	does the blue color within Grid number 5 indicate?
What	does the color red on this projection indicate?
Name	three Grid numbers within which there is evidence of water
Name	a Grid number within which a city is located.
Name	a Grid within which you find evidence of sedimentation.
	feature on this projection is indicated by the small angles?
The b	olue lines shown on this projection represent:
b) \c) h	rivers valleys nighways lakes



10.	The tiny criss-crossing lines shown on this image within Grid number 7 represent:
	a) city streets b) roads c) fences d) rivers
*NOTE	: A new transparency will be inserted at this point.
11.	This image would have most likely been created in:
	a) mid-summerb) early fallc) mid-winterd) late spring
12.	Explain why the area within Grids 7 and 8 is not covered by snow.
13.	Name a Grid number within which there is evidence of mountains.
14.	Name a Grid number within which there is evidence of open water.
15.	Band 4 is useful for which of the following characteristics:
	a) detecting cultural features b) vegetation classifications c) detecting turbidity in water d) geological classifications e) all of the above f) none of the above



16.	Band 7 is useful for all of the following characteristics except:
	 a) detection of water b) detecting conifer and deciduous forest areas c) reflectance of wet soils d) detecting the extent of blight and insect infestations
17.	Band 6 is most useful for its water characteristics (Answer true or false)
	True False
	In the visible spectrum, Band 5 lies between .600 and .700 millimicrons in wave length and is most useful for discriminating vegetation types. (Answer true or false).
	True False
19.	Canada has two Landsat receiving stations. Name their locations.
20.	Define Remote Sensing.
21.	What kind of service does the EROS Data Center provide?
22.	The images that you worked with at the C.A.I. terminal and the image that is currently projected are known as:
23.	The wave length band numbers included in the make up of these images (see question 22) are:
	Bands
24.	What service does Integrated Satellite Information Service (ISIS) provide?



25. What is the normal scale of a Landsat satellite image?



Achievement Test Answer Key

Question

- 1 Lake
- 2a 12
- 2b 9
- 3 Water or lake
- 4 Vegetation
- 5 3,5,7,10,12
- 6 11, 7
- 7 10
- 8 farms or farmland
- 9 rivers
- 10 roads
- 11 mid-winter
- 12 chinook or warm southern wind from the Rockies
- 13 9, 14
- 14 9
- 15 All of the above
- 16 Detecting conifer and deciduous forest areas
- 17 False
- 18 True
- 19 Prince Albert Sask. and Shoe Cove Nfld.
- 20. The art of acquiring information about material objects from measurements made at a distance without actually touching the object.
- 21 World wide images and technical information
- 22 Infra-red composite false color images (satellite images)
- 23 4,5,6,7
- 24 Distributes a daily set of satellite microfiche to clients
- 25 1:1 million



APPENDIX C

LANDSAT CAI PROGRAM ATTITUDE QUESTIONNAIRE

LANDSAT CAI PROGRAM ATTITUDINAL QUESTIONNAIRE

Strongly Disagree						trongl Agree
1	2	3	4	5	6	7
The mater	ial in	this course	e was:			
V ery Boring						Very resting
1	2	3	4	5	6	7
This mate	rial was	s easy to i	unde rstan	d.		
Strongly Disagree						trongly Agree
1	2	3	4	5	6	7
None						A1
	2	3	4	5	6	7
		nowledgeab terminal		course con	s	ld be trongly Agree



Strongly Disagree						St rong Agree
1	2	3	4	5	6	7
It would instructi		en easier	to learn t	this mater	ial by c	lassroom
Strongly Disagree						Strongl Agree
1	2	3	4	5	6	7
Taking th	is cour	se was a (good invest	tment of m	y time.	
Strongly Disagree						Strongly Agree
1	2	3	4	5	6	7
l would r	ate the	3 difficult	4 ty level of	5 f this cou	rse as b	eing:
Very Easy						· Very Difficu
1	2	3	4	5	6	7
l feel l images.	have a	good basid	c knowledge	e concerni	ng lands	at satell
Strongly Disagree						Strongl Agree
1	2	3	4	5	6	7
l liked t	aking t	his course	e via Co mpu	uter-Assis	ted Inst	ruction.
Strongly						Strongl
Disagree						Agree



14.	I would i	ike to	take	other	courses	via	Computer-	Assisted	Instruc-
	Strongly Disagree								Strongly Agree
	1	2	2		L		ς	6	7



APPENDIX D

LANDSAT CAI PROGRAM WRITTEN COMMENT SHEET

COMMENT SHEET

1.	What is your opinion of the CAI Landsat program?
2.	What problems, if any, did you experience while taking the program?
3.	How might the CAI program be improved?
4.	Would you as a future teacher of social studies teach Landsat satellite image interpretation by the traditional lecture method or by computer-assisted instruction?
	By traditional method By C.A.I.
	Give reasons for your answer.



APPENDIX E

LANDSAT SATELLITE CAI PROGRAM 'OMEGA'



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                                                       15,07/2,157/40,07/BASIC SKILLS OF LAND SATELLITE IMAGERY
6.07/2.67/40,07/<T>HE COURSE YOU ARE ABOUT TO UNDERTAKE,\
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THROUGH G
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFER
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                                                                                                                                                                                                                      14,0-/2,14-/40,0-/0F DATA DERIVED FROM DIFFERENT SATELLITE\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27,07/2,277/40,07/AN ALTITUDE OF APPROXIMATELY 929KM HIGH.\
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                                                                                                                                                                                                                                                                                                                         9,0-/2,9-/40,0-/ORDERED ARRAY OF KNOWN ELECTROMAGNETIC \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16.0-/2.16-/40,0-/VEGETATION (GREEN) ON <L>ANDSAT MAPS.\
21.0-/2.21-/40,0-/<L>ANDSAT%%%%%% - REFERS TO <L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,07/2,07/40,07/<ERTS>-<E>ARTH <R>ESOURCES <T>ECHNOLOGY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6,07/2,67/40,07/PRODUCED WITH THE AID OF A <L>ANDSAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13,07/2,137/40,07/INFRA-RED, AND USED TO DELINEATE \
                                                                                                                                                                                                                                   17.0-/2,17-/40,0-/SPECTRUM SCANS OF THE SAME AREA.
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                                                                                                                                                                                                                                                                                              - REFERS TO THE
                                                                                                                                                                                                                                                                                                                                                       - REFERS TO THE \
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               - REFERS TO THAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2,0-/2,2-/40,0-/<S>ATELLITE%%%%%%%
                                                                                                                              XP-/2-/16-/4-/<GLOSSARY OF TERMS >\
30,39-/2,30-/1,39-/-/1/ZZ\
                                                                                                    COPY-/DRWMGK-2-, DRWMGK-13-, SDRAW-5\
                                                                                                                                                                                                                                                                                                                                                                                                                                              4,0-/2,4-/40,0-/SATELLITES.\
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             30,39-/2,30-/1,39-/-/1/22/
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XP-/4-/20-/0-/<THE COURSE>/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME OF <L>ANDSAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AT SATELLITES \
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26,0-/2,26-/40,0-/WAVES. <T>HE PROCESS OF EMITTING RADIANT \ 29,0-/2,29-/40,0-/ENERGY.\
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                                                                                                                                                                                                                                                                                                                 - <T>HE EMISS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16,07/2,167/40,07/<a>N EYE IS LIKE A CAMERA. <E>ACH HAS A \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4.07/2,47/40,07/<A>S YOU KNOW WE ARE USED TO SEEING THINGS\
                                                                                                                                                                                                                                       10,0-/2,10-/40,0-/<P>DLAR <D>RBIT - REFERS TO THE ORBIT OF
                                                                 16,0-/2,16-/40,0-/10 TO THE -9M; REDESIGNATED NANOMETER\ 19,0-/2,19-/40,0-/UNDER THE '<I>NTERNATIONAL <S>YSTEM OF \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19,0-/2,19-/40,0-/LENS; IN THE CASE OF THE EYE THE SCENE \
                                                                                                                                                                                                                                                                                                                                                    23,0-/2,23-/40,0-/0F ENERGY THROGH SPACE IN THE FORM OF \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22,07/2,227/40,07/IS FOCUSED ON THE RETINA; IN THE CASE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23,0-/2,23-/40,0-/PORTION OF THE LIGHT SPECTRUM VISIBLE \
                                                                                                                                                                                                 3,0-/2,3-/40,0-/THAT PORTION OF THE LIGHT SPECTRUM NOT
                                                                                                                                                                                                                                                                           13,0-/2,13-/40,0-/SATELLITE WHERE THE PATH IS OVER THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25,07/2,257/40,07/0F A CAMERA, IT IS FGCUSED ON A FILM.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,0-/2,0-/40,0-/<m>E SEE MOST OF THE OBJECTS ABOUT US \ 3,0-/2,3-/40,0-/8Y REFLECTED LIGHT. <I>F WE TURN OFF \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6,0-/2,6-/40,0-/THE LIGHTS, WE NO LONGER SEE ANYTHING:\ 9,0-/2,9-/40,0-/THERE ARE NO LIGHT RAYS FOR THE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10,07/2,107/40,07/MEASURING SOME PROPERTY OF AN OBJECT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7,07/2,77/40,07/IN COLOR. <L>ETS HAVE A LOOK AT THE \ 10,07/2,107/40,07/<ELECTROMAGNETIC SPECTRUM >WHICH \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13,0-/2,13-/40,0-/WITHOUT ACTUALLY COMING INTO CONTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7,07/2,77/40,07/AT A DISTANCE: THAT IS. DETECTING AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                4,0¬/2,4¬/40,0¬/<R>EMOTE <S>ENSING %%%%%%%%%%%%%%%%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             - REFERS TO THAT
                                13,0-/2,13-/40,0-/<M>ILLIMICRON%%%%%%%%%%
                                                                                                                                                                                                                     6,07/2,67/40,07/VISIBLE TO THE HUMAN EYE.\
                                                                                                                                                                                                                                                                                             16,0-/2,16-/40,0-/EARTH'S POLES.\
20,0-/2,20-/40,0-/<R>ADIATION%%%%%%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26,07/2,267/40,07/TO THE HUMAN EYE. \
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                                                                                                        22.07/2,227/40.07/<U>NITS'.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   - MEANS SENSING THINGS
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               S,0-/2,9-/40,0-/SATELLITE.\
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                                                                                                                            30,39-/2,30-/1,39-/-/1/2Z
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6,07/2,67/40,07/IS ONLY SENSITIVE TO A VERY SMALL \ 9,07/2,97/40,07/PART OF THE TETLTETCTTROTMTATON TITL S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ۵.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6,0-/2,6-/40,0-/<x>-<RAYS ULTRA>-<VIOLET INFRARED MICROWAVE >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            - 1 <M>ILLIMICRON = 0.000000
                                                                                                                                                                                                                                                                                                                                                            21,07/2,217/40,07/2. <T>HE WAVE LENGTH BAND COLORS IN THIS \
                                                                                                                                                                                                                                                                                                                                                                                                         27,0-/2,27-/40,0-/AND RED. <T>HE RANGE IS FROM ULTRAVIOLET \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        =1 X 10 TO THE POWER OF -9 METERS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13,27/2,137/38,27/<C>AMERAS ARE ALSO SENSORS WHICH OPERATE \ 16,07/2,167/40,07/IN THE VISIBLE REGION AND PRODUCE \ 19,07/2,197/40,07/A PERMANENT RECORD OF WHAT THE EYE \
                                                                19,0-/2,19-/40,0-/LENGTHS (<X>-RAYS) TO LONG WAVE LENGTHS \
                                                                                                                                                                                                                                                                                           12.0-/2,12-/40,0-/1. <T>HE HUMAN EYE CAN ONLY SEE A SMALL \
                                                                                                                                                                                                                                                                                                                 15,0-/2,15-/40,0-/PART OF THE SPECTRUM. <M>ORE SPECIFIC-\
                                                                                                                                                                                                                                                                                                                                     18.0-/2,18-/40,0-/ALLY, BETWEEN .400 AND .700 MILLICRONS.\
                                                                                                                                                                                                     0,27/2,07/40,07/<W>HEN YOU EXAMINE THE 'ELECTROMAGNETIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3,2/2,3/38,2/<A>S YOU CAN SEE, THE EYE (OUR SENSOR) \
                                                                                                                                                                                                                      3,07/2,37/40,07/SPECTRUM' ON THE NEXT SCREEN DISPLAY,
                    13,0-/2,13-/40,0-/ILLUSTRATES THE COMPLETE RANGE OF \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19,97/2,197/40,07/'-V7I7S7I7B7L7E 7S7P7E7C7T7R7U7M' \
                                                                                                                                                                                                                                                                                                                                                                                   24,0-/2,24-/40,0-/VISIBLE RANGE INCLUDE BLUE, GREEN \
                                                                                    22,0-/2,22-/40,0-/(RADIO WAVES) TO FIND OUT IN FACT
                                         16.0-/2,16-/40,0-/LIGHT WAVES FROM VERY SHORT WAVE
                                                                                                                                                                                                                                              6,07/2,67/40,07/PLEASE TAKE NOTE OF THE FOLLOWING \ 9,07/2,97/40,07/INFORMATION: \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11,7-/2,11-/40,0-/.400MC .500MC .600MC .700MC/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <MAGNETIC SPECTRUM>.\
                                                                                                                                                                                                                                                                                                                                                                                                                              30,01/2,301/40,01/TO NEAR INFRA-RED.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15, 15-/2, 15-/25, 15-/<,-G-R-E-E-N >/
                                                                                                           25,0-/2,25-/40,0-/HOW WE DO SEE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15.22-/2,15-/18,22-/<.--R-E-D >\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24,0¬/2,24¬/40,0¬/<N>OTE%%%_
                                                                                                                                  30,39-/2,30-/1,39-/-/172
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12 DTI 11.0-/2.11-/40.0-/WHICH CAN <SEE $\\%\>___ IN THOSE PARTS OF THE
                                                                                                    DTI 17,0-/2,17-/40,0-/AND BELOW(ULTRAVIOLET) THE <VISIBLE%%%%%>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DII 26,0-/2,26-/40,0-/-H>INT! <D>IRECT TOUCH IS NOT REMOTE SENSIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28,0~/2,28~/40,0~/<R>EMDTE SENSING IMPLIES DISTANCE -F-R-D-M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16,07/2,167/40,07/7C <Y>0U FEEL THE FLOOR BENEATH YOUR FEET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26,0-/2,26-/40,0-/<Y>U TOOK TO LONG IN MAKING A RESPONSE.\
                                                                                 14.0-/2.14-/40.0-/SPECTRUM WHICH LIE ABOVE (<I>NFRARED) \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8,0-/2,8-/40,0-/-A <W>ATCHING A MOON LANDING ON <T V>.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,0-/2,0-/40,0-/<W>HICH OF THE FOLLOWING ARE -N-0-T%%_3,0-/2,3-/40,0-/EXAMPLES OF <REMOTE SENSING>?\
                                                                                                                                                                                                                                                                                          12,2-/2,12-/40,0-/<T>HIS ART OF ACQUIRING INFORMATION
                  11 DTI 8,27/2,87/40,07/<0>THER SENSORS HAVE BEEN DEVELOPED \
                                                                                                                                                                                                                                 3.07/2.37/40,07/ABDARD SATELLITES THAT ARE ORBITING
                                                                                                                                                                                                                                                        6,07/2,67/40,07/THE EARTH TAKING PHOTOGRAPHS OF ITS
                                                                                                                                                                                                             0,27/2,07/40,07/<T>HESE SENSORS HAVE BEEN PLACED \
                                                                                                                                                                                                                                                                                                                                        18,07/2,187/40,07/MEASUREMENTS MADE AT A DISTANCE
                                                                                                                                                                                                                                                                                                                                                                                                         27,12,1/2,27/40,0/7/R/E-M/0-1/E -S/E-N/S/I/NG \
                                                                                                                                                                                                                                                                                                                                                              21,0-/2,21-/40,0-/WITHOUT ACTUALLY TOUCHING THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12,07/2,127/40,07/78 <L>ISTENING TO THE RADIO.\
                                                                                                                                                                                                                                                                                                                    15.0-/2,15-/40,0-/ABOUT MATERIAL OBJECTS FROM \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22.0-/2.22-/40.0-/-D <W>ATCHING A HORSE RACE.\
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                                                                                                                                             20,07/2,207/40,07/REGION.
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17,0-/2,17-/40,0-/PREVIOUSLY REFERRED TO AS CERTS >MAPS \ 20,0-/2,20-/40,0-/(<E>ARTH <R>ESOURCES <T>ECHNOLOGY <S>ATELLI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28.07/2,287/40.07/<S>LOWPOKE! <I >HAVE IT TO YOU -1W-I-W-I-K-1E!
                                                                                                                                                                                                                                                                        27,0-/2,27-/40,0-/<L>ANDSAT-1 WAS LAUNCHED ON <U>ULY 23,1972.
                                                                                                                                                                                    14,0-/2,14-/40.0-/<T>HESE LAND SATELLITE(LANDSAT) MAPS WERE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.2-/2,0-/40,0-/<PLEASE ANSWER THE FOLLOWING QUESTIONS>\
5.1-/2,5-/40,0-/1. <0>N WHAT DATE WAS <L>ANDSAT-1 LAUNCHED?
                                                                                                                                                                   11,07/2,117/40,07/ARE BEING MADE BY ORBITING SATELLITES.
                                                                                                                                                   8,0-/2,8-/40,0-/TECHNOLOGY, MAPS OF THE EARTH'S SURFACE
                                                                                                                                                                                                                                                     24,2,7/2,24-/40,0-/<T>HE MAPS WERE FIRST OBTAINED WHEN \
                                                                                                                               5,2-/2,5-/40,0-/<T>ODAY, THROUGH THE SERVICES OF SPACE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .1 <0>N WHAT DATE WAS <L>ANDSAT-1 LAUNCHED?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28.07/2.287/40,07/<H>INT! <T>RY THE EARLY 1970'S.\ $07/C27/((1+4).3)\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7,47/2,77/40;07/(<S>PECIFY MONTH DAY AND YEAR)/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28,0-/2,28-/40,0-/<Y>ES! <U>ULY 23 1972\
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                                COPY-/DRWMTT-2-, DRWMTT-35-, SDRAW-8\
                                                                                                                   0.16-/2,0-/40,0-/<LANDSAT%%%%%>
                                                                                                                                                                                                                                                                                                                                                                                                            XP-/3-/18-/4-/<JULY >23 1972\
                                                                                                                                                                                                                                                                                                                                         XP-/3-/10-/4-/JULY 23 1972
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30,39-/2,30-/1,39-/-/1/2Z/
                                                                                   30.39-/2,30-/1,39-/-/22/
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                                                 DRWMTT-/O-,O/
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                                                                                                                                                                                                                                                                                       12.0-/2.12-/40.0-/IMAGE DATA TO SATELLITE RECEIVING \
15.0-/2.15-/40.0-/STATIONS AT <P>RINCE <A>LBERT%%%%%%%%%%%__
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23,0-/2,23-/40,0-/TO THE COLORS <GREEN>,<RED >AND NEAR%%%%%%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13.3-7/2,13-7/40,0-7/<T>HE <L>ANDSAT IMAGES COVER AN AREA OF \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8,27/2,87/40,07/<T>HE <M>ULTISPECTRAL <S>CANNER SWEEPS AN \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6.07/2,67/40,07/10 <K>M. THEY CAN BE ENLARGED TO A SCALE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16,07/2,167/40,07/0VER 34,225 SQUARE KM. AND CAN SHOW \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   O.37/2,07/40,07/<T>HE IMAGES THAT ARE PRODUCED HAVE A \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11,0-/2,11-/40,0-/AREA CONTINUOUSLY FROM SIDE TO SIDE \ 14,0-/2,14-/40,0-/RECORDING EACH SCENE IN FOUR WAVE \
                                                                                                                                                                                                                                                   6,07/2,67/40,07/<T>HERE ARE TWO SENSORS ON BOARD EACH
                                                                                                                                                                                                                   O,11-/2,0-/40,0-/<SATELLITE SENSORS%%%%%%%%%%%%%%%%
                                                                                                                                                                                                                                                                                                                                                                                                                                                       17,0-/2,17-/40,0-/PHOTOGRAPHS OF THE EARTH IN THREE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3.07/2,37/40,07/SCALE OF 1:1 MILLION.(1 CM. EQUALS \
                                                                                                                                                                                                                                                                     9,07/2,97/40,07/SATELLITE WHICH TRANSMIT <C>ANADIAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20,07/2,207/40,07/WAVE LENGTH BANDS CORRESPONDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19,0-/2,19-/40.0-/FEATURES 30 METRES AND LARGER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17.0-/2.17-/40.0-/LENGTH BANDS (4.5.6.AND 7)\
20.0-/2.20-/40.0-/SIMULTANEQUSLY.\
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                COPY-/DRW2CS-2-, DRW2CS-39-, SDRAW-1/
                                                                                                                                                                                                                                                                                                                            . <S>ASKATCHEWAN
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                                                                                      30,391/2,301/40.01/1:/
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                                                                                                                         30,391/2,301/40,01/
                                 DRW2CS-/0-.0/
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11,0-/2,11-/40,0-/cc R T>. <T>HE MASTER NEGATIVES ARE THEN \ 14,0-/2,14-/40,0-/DISTRIBUTED DAILY AS A SET OF \
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                                                                                                                                                                                                                                                                                                                           22.0-/2.22-/40,0-/RECONSTRUCT THE IMAGES FROM THE RADIO \
                                                                                                                                                                                                                                                               13,07/2,137/40,07/PHOTOGRAPHIC IMAGES TD RADID SIGNALS \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2,27/2,27/40,07/<T>HE FORMATTER DPERATES A 70MM CAMERA \
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                   12.0-/2.12-/40.0-/<T>HE IMAGES THAT ARE PRODUCED HAVE
                                                                                                                                                                                                                                                                                                                                               25,0-/2,25-/40,0-/SIGNAL TO PRODUCE BLACK AND WHITE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5,0-/2,5-/40,0-/WHICH TAKES A COMPLETE PICTURE DF \ 8,0-/2,8-/40,0-/AN AREA 185KM <X >185KM SQ. OFF THE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12,0-/2,12-/40,0-/<I>NFDRMATION FROM SATELLITES IS \ 15,0-/2,15-/40,0-/RECORDED ON 28 TRACK TAPE WHICH IS 18,0-/2,18-/40,0-/THEN FED INTD A FDRMATTER WHICH \
                                                                                                                                                                                                                                                                                                                                                                 28,07/2,287/40,07/0R COMPOSITE FALSE COLOR IMAGES.\
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                                                                                                                                                                                                                                             10,27/2,107/40,07/<e>ACH SATELLITE CDNVERTS THE '
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                                                                                                                                                                                                                                                                                    16,07/2,167/40,07/WHICH ARE SENT TD THE GROUND \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4,7/2,4/40,0/<INTEGRATED SATELLITE >\ 6,5/2,6/40,0/<INFORMATIONS SERVICES LTD >\
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17,0-/2,17-/40,0-/<MICROFICHE%%%%%%%%>
                                                                                                                                                                                                     4,97/2,47/40,07/<HOW DATA IS RECEIVED >\
6,97/20\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21,07/2,217/40,07/PREPARES THE DATA.
                                     15.07/2.157/40,07/SCALE OF :-/
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4,0-/2,4-/40,0-/1. <P>ASS <Q>UICK <L>00K <S>YSTEM - CHECKS 0
                                                                                                                                         16,0-/2,16-/40,0-/3. <EROS D>ATA <C>ENTER - <P>ROVIDES WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.0-/2,0-/40,0-/<H>I <T>HERE!!! <J>UST THOUGHT <I >WOULD OFFE
                                                                                                                                                                                                                       21,07/2,217/40,07/<C>ENTER LOCATED AT <S>IOUX <F>ALLS, <S>OUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16,3-/2,16-/40,0-/-A <R>EVIEW THE SEGMENT JUST COMPLETED.\ 24,3-/2,24-/40,0-/-B <C>ONTINUE ON TO THE NEXT SEGMENT\
                                                                                                                                                                                                                                                                                                                                                                                                                                          10,0-/2,10-/40,0-/2. <ISIS L>TD - <D>ISTRIBUTES A SET OF \ 13,5-/2,13-/40,0-/MICROFICHE DAILY.\
10 DTI 23.0-/2,23-/40.0-/<S>ASKATCHEWAN, ON A SUBSCRIPTION BASIS. 11 EPI 30,39-/2,30-/1,39-/-/-/22\
                                                                                                                                                                                                  18,0-/2,18-/40,0-/CAN BE OBTAINED FROM THE <E>ROS <D>ATA \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6,07/2,67/40,07/<I >HAVE A COUPLE OF OPTIONS FOR YOU TO \
                                                                                                                                                                            15.0-/2, 15-/40,0-/INFORMATION PERTAINING TO THESE IMAGES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19;5-/2,19-/40,0-/WIDE IMAGES AND TECHNICAL INFORMATION \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,0-/2,0-/40,0-/<USE THE LIGHT PEN TO INDICATE WHETHER >/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8,0-/2,8-/40,0-/THINK ABOUT. <P>LEASE INDICATE YOUR 10,0-/2,10-/40,0-/CHOICE WITH THE LIGHT PEN.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28,0~/2,28~/40,0~/<P>OINT TO ONE OF THE CHOICES.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28,0-/2,28-/40,0-/<P>DINT TO ONE OF THE CHOICES.\
                                                                                                                                                                                                                                                                                                                                                                                                                          7,5-/2,7-/40,0-/THE QUALITY OF DATA RECEIVED.\
                                                                                                                                                                                                                                                                                                                                                              O,8-/2,0-/40,0-/<SERVICE AGENCY HIGHLIGHTS >/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22,57/2,227/40,07/DN WORLD WIDE IMAGES.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2,07/2,27/40,07/YOU SOME ENCOURAGEMENT.
                                                                                                6,87/2,67/40,07/<THE EROS DATA CENTER >/
                                                                                                                                                                                                                                                               9 DTI 24,0-/2,24-/40,0-/<D>AKDTA.\
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QUIZ1

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28,0-/2,28-/40,0-/<B>LACK & <W>HITE IMAGES ARE MADE FIRST.\
                           9,2-/2,9-/40,0-/1. <R>ADIO SIGNALS FROM SATELLITES CAN BE\
2,07/2,27/40,07/<THE STATEMENTS THAT FOLLOW ARE TRUE OR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <U>SERS CAN OBTAIN MICROFICHE FROM \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11.6-/2,11-/40,0-/<ISIS L>TD. ON A SUBSCRIPTION BASIS.\
16.2-/2,16-/40,0-/-T\
22.2-/2,22-/40,0-/-F\
-/QUIZ1 -051\
                                                                                                                                                                                                                                                                                                                                 <C>ANADA HAS ONLY ONE SATELLITE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28,17/2,287/40,07/<Y>ES!! <T>HERE ARE TWO STATIONS.\
                                                                                                                                                                                     17 DII 28,0-/2,28-/40,0-/<B>INGO! <Y>OU HIT THE JACKPOT\
18 PAE \
19 WAP 4,22,3,0-/W1\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28,17/2,287/40,07/<N>0! <T>HERE ARE TWO STATIONS.\
                                                         13,27/2,137/40,07/COMPOSITE FALSE COLOR IMAGES.\
                                                                                                                                                                                                                                                         28,17/2,287/40,07/<P>LEASE POINT TO TF OF
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                                                                                                                            26,07/2,267/40,07/<Y>DUR TAKING TOO LONG!/
28,27/2,287/40,07/<T>RY AGAIN.\
RE\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28,07/2,287/40,07/<A>ROUND WE GO AGAIN.\
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                                                                                                                                                                                                                                                                                                                                          11,27/2,117/40,07/RECEIVING STATION.\
16,27/2,167/40,07/T\
22,27/2,227/40,07/F\
7/QUIZ1 -031\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26,07/2,267/40,07/<F>ASTER PLEASE !\
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              4,07/2,47/40,07/<FALSE>.\
                                                                     16,27/2,167/40,07/7T/
22,27/2,227/40,07/7F/
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                                                                                                 /001Z1 -011/
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3 DTI 3.2-/2.3-/40.0-/<I>N THE SECTION THAT FOLLOWS, WE WILL \
4 DTI 6.0-/2.6-/40.0-/EXAMINE 4 DIFFERENT WAVE LENGTH <BANDS%%%>_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 DII 25,11/2,251/40,01/-STO TPTLTETATSTE TPTATY TATTLETNITIONN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28,07/2,287/40,07/<Y>ES! <C>ORRECTIONS CAN BE MADE IMMEDIATEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28,0-/4,28-/40,0-/<Y>UU NEED SOME SYSTEM OF QUALITY CONTROL.\
                                                                                                                                                                                                                                                    9,0-/2,9-/40,0-/<T>HE <PASS QUICK LOOK SYSTEM >IS DESIGNED\
11,0-/2,11-/40,0-/TO CHECK ON THE QUALITY OF DATA RECEIVED.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12,0-/2,12-/40,0-/FOUR WAVE BANDS, <'B>ANDS 4,5,6 + 7<'>. \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15,37/2,157/40,07/<T>HE NEXT SCREEN DISPLAY WILL GIVE YOU \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DTI 18.0-/2,18-/40,0-/A BRIEF DESCRIPTION OF USEFUL FEATURES \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DII 21,07/2,217/40,07/PERCULIAR TO EACH WAVE LENGTH <BAND%%%>
                                                                26,0-/2,26-/40,0-/<H>INT! <N>EGATIVES ARE PRODUCED DAILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 DTI 0.07/2.07/40.07/<GENERAL CHARACTERISTICS OF WAVE BANDS >/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 DL 2.17/37\
5 DTI 6.37/2.67/40.07/<W>E SAID EARLIER, THAT EACH SCENE IS \
6 DTI 9.07/2.97/40.07/RECORDED BY A MULTISPECTRAL SCANNER IN \
7 DTI 12.07/2.127/40.07/F0UR WAVE RANNE
                                                                                                             DII 26.57/4,267/40,07/<Y>DUR MAKING ME ANXIDUS <T>RY AGAIN!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7 DII 15,2-/2,15-/40,0-/<I>I IS EXTREMELY IMPORTANT THAT YOU \
                                                                                                                                                                                                                                                                                                                                                                                        26;07/2,267/40,07/<C>LUE! IMAGE QUALITY IS IMPORTANT.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5 DTI 9.07/2,97/40,07/AND THE CHARACTERISTICS THATS ARE \ 6 DTI 12,07/2,127/40,07/IMPOPTANT THATS ARE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28,07/4,287/40,07/<Y>DU'RE MAKING ME DIZZY!\
                     26.07/4,267/40,07/<Y>0U'RE CORRECT!
                                                                                                                                                                                                                                                                                                                                                                                                             28,07/2,287/40,07/<T>RY AGAIN.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EPI 30,39-/2,30-/1,39-/-/17Z/
                                                                                                                                                                                 EPI 30,397/2,307/1,397/7/17Z\
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19,07/2,197/40,07/28787878 - <R>ECORDING IN THE RED PORTIO
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                                                                    27,0-/2,27-/40,0-/<L>ANDSAT IMAGES IN A SUBSEQUENT SECTION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24,0-/2,24-/40,0-/REFLECTANCE IS MOST USEFUL FOR DETECTING\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26.0-/2.26/40.0-/CONIFER (LOW REFLECTANCE) AND DECIDUOUS \
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                                                                                                                                                                                                                                                                                                                                                                                            10,0-/2,10-/40,0-/DETECTING CULTURAL FEATURES, VEGETATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          12,0-/2,12-/40,0-/RADIATION, THERE WILL BE LITTLE, IF ANY 14,0-/2,14-/40,0-/INFRA-RED REFLECTION FROM THE WATER \
                                                                                                                                                                                                                                                                                                                   2,07/2,27/40,07/78747ND 74 - <R>ECORDING THE BLUE/GREEN
                                                    24,07/2,247/40,07/THIS KNOWLEDGE WILL HELP YOU INTERPRET
               18.0-/2,18-/40.0-/PAY 'CLOSE ATTENTION' TO THE USE%%21.0-/2,21-/40.0-/DESCRIBED FOR EACH OF THE <B>ANDS, AS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10,07/2,107/40,07/ISTICS. <A>S WATER ABSORBS INFRA-RED
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                                                                                                                            10,01/2,101/40,01/<PLEASE FEEL FREE TO TAKE NOTES ON >
                                                                                                                                                                                                                                                                                                                                                     6:07/2,67/40,07/BETWEEN .500 AND .600 MILLIMICRONS IN \
                                                                                                                                                                                                                                                                                                                                                                                                                                  14.0-/2,14-/40.0-/ICATIONS, AND DETECTION OF TURBIDITY\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18.0-/2.18-/40.0-/BLACK. <I>N ADDITION, THE INFRA-RED
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6,07/2,67/40,07/MILLIMICRONS IN WAVE LENGTH. <B>AND 6
                                                                                                                                                                                                                                                                                                                                    4.0-/2,4-/40,0-/PORTION OF THE VISIBLE SPECTRUM LYING
                                                                                                                                                                                                                                                                                                                                                                          8,07/2,87/40,07/WAVE LENGTH. <B>AND 4 IS USEFUL FOR \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25,07/2,257/40,07/LENGTH. <B>AND 5 IS MOST USEFUL IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29,07/2,297/40,07/DETECTION OF SOME CULTURAL FEATURES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16.07/2,167/40,07/AND SO WATER AREAS WILL BE SHOWN AS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23,07/2,237/40,07/.600 AND .700 MILLIMICRONS IN WAVE-\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22,07/2,227/40,07/BEING RECORDED. <T>HIS VEGETATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21,07/2,217/40,07/THE VISIBLE SPECTRUM LYING BETWEEN \
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                                                                                                                                              13.0-/2,13-/40,0-/<THIS SEGMENT AND ANY OTHER THAT >/
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                                                                                                                                                                                     COPY-/DRWMGK-2-, DRWMGK-13-, SDRAW-5/
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                                                                                                                                                                  16.07/2.167/40.07/<FOLLOWS>
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0.01/2.01/40.01/1814-1814-1916 The MODERATE/NEAR
                                                                                                                                                10.0-/2.10-/40.0-/DETECTION CHARACTERISTIC BUT IN ADDITION\
12.0-/2.12-/40.0-/ALSO PICKS UP THE LOW REFLECTANCE OF \
14.0-/2.14-/40.0-/WET SOILS. SLOUGHS, MARSH AND MUSKEG.\
16.0-/2.16-/40.0-/<8>Y COMPARING <B>AND 6 TO <B>AND 7. OPEN \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3,07/2,37/40,07/<S>ENSITIVE TO THE NEAR INFRA-RED PORTION \
                                                                                                                                                                                                                                                                   <I>N ADDITION.
                                                                                                                                                                                                                                           18,0-/2,18-/40,0-/WATER BODIES MAY BE DISCRIMINATED FROM \ 20,0-/2,20-/40,0-/THE WET SOIL CONDITIONS. <I>N ADDITION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9,0-/2,9-/40,0-/LIGHT SPECTRUM. <T>HE SENSORS PRODUCE \ 12,0-/2,12-/40,0-/WHAT ARE CALLED BAND 4, BAND 5, BAND 6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9,07/2,97/40,07/CONTRASTS THAT REFLECT VARIOUS LAND USE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3,0-/2,3-/40,0-/SATELLITE. <E>ACH ONE OF THEM IS \ 6,0-/2,6-/40,0-/SENSITIVE TO A DIFFERENT PORTION OF THE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20,0-/2,20-/40,0-/<S>ENSITIVE TO THE RED PORTION OF THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26,07/2,26-/40,07/AND CULTURAL FEATURES SUCH AS DRAINAGE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               23,07/2,237/40,07/LIGHT SPECTRUM AND SHOWS TOPOGRAPHICAL
                                                                                                                                                                                                                                                                                                               24,0-/2,24-/40,0-/REFLECTANCE FROM VEGETATION, WHICH IS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8,07/2,87/40,07/AND OR TURBIDITY OF STANDING BODIES OF \
                                                                                   4,0-/2,4-/40,0-/BEYOND THE VISIBLE RANGE, LYING BETWEEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.57/2,07/40,07/<T>HERE ARE 4 SCANNING DEVICES ON THE \
                                                                                                                                                                                                                                                                                                                                     26,0-/2,26-/40,0-/USEFUL FOR DETECTING THE EXTENTS OF \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11,0-/2,11-/40,0-/WATER AND CULTURAL FEATURES SUCH AS \ 14,0-/2,14-/40,0-/RGADS AND TOWNS.\
                                                                                                                                                                                                                                                                                         22,0-/2,22-/40,0-/<8>AND 7 PROVIDES MAXIMUM INFRA-RED \
                                                              2,07/2,27/40,07/INFRA-RED PORTION OF THE SPECTRUM WELL
                                                                                                                               8.07/2.87/40,07/LENGTH. <B>AND 7 RETAINS THE WATER \
                                                                                                                                                                                                                                                                                                                                                           28,0-/2,28-/40,0-/BLIGHTS AND INSECT INFESTATIONS IN \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5,07/2,57/40,07/THE LIGHT SPECTRUM AND CAN SHOW DEPTH\
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                                                                                                         6,07/2,67/40,07/.800 AND 1.00 MILLIMICRONS IN WAVE-\
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              XP-/2-/16-/4-/<WAVE LENGTH BAND>/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   XP-/20-/26-/4-/<CHARACTERISTICS>/
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15.0-/2.15-/40.0-/COMBINED INTO A STACK-LIKE SANDWICH.\
17.0-/2.17-/40.0-/<I>F EACH SEPARATE IMAGE IN THE STACK IS \
19.0-/2.19-/40.0-/THEN COLOR CODED.(I.E. <B>AND 4 PRINTED\
21.0-/2.21-/40.0-/IN BLUE, <B>AND 5 PRINTED IN GREEN, AND\
23.0-/2.23-/40.0-/<B>AND 7 PRINTED IN <R>ESULT IS A
            26,07/2,267/40,07/7C707M7P707S7I7T7E 7F7A7L7S7E 7C707L707R 7I
                                                                  19.0-/2,19-/40,0-/<S>ENSITIVE TO THE NEAR INFRA-RED PORTION/
22,0-/2,22-/40,0-/0F THE SPECTRUM SLIGHTLY HIGHER THAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0,07/2,07/40,07/<H>DWDY <P>ARTNER!!! <I >NDTICED YOU'RE \
                                                                                                                                                                                                                                                                                                 5,2-/2,5-/40,0-/<P>AGES 2 AND 3 OF YOUR CURRICULUM KIT \ 7,0-/2,7-/40,0-/SHOW TWO SCENES OF <W>INNIPEG IN \ 9,0-/2,9-/40,0-/COMPOSITE FALSE COLOR.\
                                                                                                                                                                                                                                                                                                                                                     13,2/2,13/38,2/<1>NDIVIDUAL WAVE BAND IMAGES MAY BE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16,37/2,167/40,07/<T>HIS COMPOSITE TYPE HAS BEEN USED \ 19,07/2,197/40,07/TO ADVANTAGE IN AGRICULTURE, FORESTRY 22,07/2,227/40,07/AND VEGETATION STRESS RELATED \
                                                                                                         25,0-/2,25-/40,0-/THE BAND 6, AND IS BEST FOR LAND AND
                                                                                                                                                                                                                                                            <COMPOSITE FALSE COLOR > (<C>1)\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16,3~/2,16~/40,0~/~A <R>EVIEW THIS SEGMENT \ 24,3~/2,24~/40,0~/~B <I >WOULD LIKE TO CONTINUE ON!\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ,0-/2,7-/40,0-/<I >HAVE SOME MORE OPTIONS FOR YOU!
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                                                                                                                           28,07/2,287/40,07/WATER DESCRIMINATION.
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PR1/
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28,0-/2,28-/40,0-/<H>INT! <L>DOK AT THE SPECTRUM'S HIGH END.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6,07/2,67/40,07/<USE>. <U>SE A TOTOL TOTOL NUMBER ONLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28,27/2,287/40,07/<C>LUE! <B>ETWEEN .700-.800 <M>ILLICRONS.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VEGET-/
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                               0,07/2,07/40,07/<P>LEASE ENTER THE APPROPRIATE WAVE LENGTH\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28,0~/2,28~/40,0~/<c>LUE! <B>ETWEEN .800-.1,100 MILLICRONS\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2.0-1/2.2-1/40,0-1/<PLEASE ENTER THE APPROPRIATE WAVE LENGTH>/
                                                                    2,07/2,27/40,07/<8>AND <N>UMBER BESIDE ITS ASSOCIATED USE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4.0-/2,4-/40,0-/<LENGTH BAND NUMBER BESIDE ITS ASSOCIATED>/
                                                                                                                                                                                                                                                                                                     <U>SEFUL FOR ITS WATER CHARACTER-\
                                                                                                 4,01/2,41/40,01/<U>SE A NUMBER BETWEEN 4 AND 7 101/1/2,81/40,01/1. <D>ETECTS LOW REFLECTANCE OF WET\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <D>ESCRIMINATES VEGETATION TYPES.\
                                                                                                                                                                                                                                                                                                                                            21,6-/2,21-/40,0-/ISTICS AND DECTECTION OF CONIFERS \
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11,6-/2,11-/40,0-/AND IDENTIFYS CULTURAL FEATURES.\
16,0-/2,16-/40,0-/4. <D>ETECTS CULTURAL FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18,6-/2,18-/40,0-/ATION CLASSIFICATIONS AND TURBID
                                                                                                                                                                                    10,6-/2,10-/40,0-/SOILS, MARSH, AND THE EXTENT OF
                                                                                                                                                                                                                         12.6-/2,12-/40,0-/BLIGHT AND INSECT INFESTATIONS \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28,0-/2,28-/40,0-/<e>VEN TURTLES ARE FASTER !!!/
                                                                                                                                                                                                                                                                                                                                                                                   23,67/2,237/40,07/AND DECIDUOUS FOREST AREAS.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28,27/2,287/40,07/<S>MASHING!!! <0>LD <C>HAP\
SQ1/W11/(3+4+5)\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        $Q-/CO-/('2)\
28,0-/2,28-/40,0-/<Y>0U'RE ON YOUR WAY!!!\
                                                                                                                                                                                                                                                                   14.6-/2,14-/40,0-/IN CROPS AND FORESTS.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19,2/2,19/1,2/6001/41/QUIZ2 -030\
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                                                                                                                                                                                                                                                                                                          19,01/2,191/40,01/2.
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CLASSIFICATIONS AND TURBID WATER.\

SEG3D

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28.07/2,287/40,07/<C>LUE! <B>ETWEEN .600 AND .700 <M>ILLICRON
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12,11/2,127/40,01/10161R1Y 11-M1P101R1T1A1NT YOU BECOME FAMI
                                                                           28,0-/2,28-/40,0-/<Y>DUR SLIPPING AWAY ON ME - <T>RY AGAIN!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5,07/2,57/40,07/<T>HE CHART INDICATES THE <NATURAL%%%%%>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28,07/2,287/40,07/<C>LUE! <B>ETWEEN .500-.600 MILLICRONS.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,11/2,01/40,01/<COLORS PRODUCED BY COLOR INFRARED FILM >/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6,17/2,67/40,07/<S>INCE YOU WILL BE WORKING WITH TWO \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28,0~/2,28~/40,0~/<H>INT! .500-.600MC IS BELOW <B>AND
                                                                                                                                                                                                                                                     28,07/2,287/40,07/<C>LUE .600-.700 IS BELOW <B>AND 6\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9,17/2,97/40,07/COMPOSITE FALSE COLOR IMAGES, IT IS \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18 DTI 7.0-/2,7-/40,0-/0F DIFFERENT VEGETATION AND ALSO THE
                                                                                                                                                      28,0-/2,28-/40,0-/<T>HAT MAKES YOU NUMERO UND!!!\
                                                                                                                                                                                                                                                                                                                                                                                                                                                  28.0-/2.28-/40,0-/<I >AM BEGINNING TO LIKE YOU!!\
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                                                                                                                                                                                                                                                                                                                                                 16,37/2,167/1,37/6007/47/SEG3D -027\
                                    9,37/2,97/1,37/6007/47/SEG3D -012/
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20,6-/2,20-/40,0-/WATER.\
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RE\
                   <B>AND 5 4 6 7-/81\
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                                                           14.0-/2,14-/40,0-/<T>HE COLORS YOU SEE NATURALLY WITH THE \ 16,0-/2,16-/40,0-/VISIBLE EYE ARE SHOWN ON THE -1-E-F-T SIDE
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                                                                                            18,07/2,187/40,07/0F THE SCREEN. <V>EGETATION AND OTHER \
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              19 DTI 9,0-/2,9-/40,0-/COLOR THIS SAME VEGETATION WOULD APPEAR\
                                                                                                                                              22,07/2,227/40,07/0N THE 7R-I-G-H-T SIDE OF THE SCREEN.
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                             <L>OSS OF CHLOROPHYL
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                                                                                                                                                                                                                                                                                                                                              <P>INK\
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                                <BLACK>
                                                                                                                                                                                                                                                                                    18,27/2,187/40,07/<A >NEW TECHNIQUE KNOWN AS <CHANGE%%%%>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16.3-/2.16-/40.0-/-A <R>EVIEW THE SEGMENT JUST COMPLETED.\ 24.3-/2.24-/40.0-/-B <C>ONTINUE ON WITH THE NEXT SEGMENT\
                                                                                                                                                                                                                                11,07/2,117/40,07/FEATURES IN A SCENE. <H>DWEVER, FINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25,0-/2;25-/40,0-/WATER WHICH CAN RANGE FROM SEDIMENTATION\
                                                 <BLUE>//
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22,37/2,227/40,07/<T>HE BLUE INDICATES PARTICLES IN THE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10,07/2,107/40,07/THE BLUISH-BLACK PORTIONS OF THE IMAGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                            12,0-/2,12-/40,0-/MAY BE COMPARED AUTOMATICALLY, AND \ 15,0-/2,15-/40,0-/0NLY THE DIFFERENCES BETWEEN THE TWO \ 18,0-/2,18-/40,0-/WILL BE PRESENTED. \
               <YELLOW>\
                                                                                                                                                                                                                                                 13,07/2,137/40,07/ALL OF THE CHANGED AREAS CAN BE TIME \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,07/2,07/40,07/<H>ELLO!!! <Y>0U HAVE JUST FINISHED THE
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                                                                                                                                                                                                                                                                                                                                                        22,0~/2,22~/40,0~/RECOGNIZED WITHOUT THE VISIBLE IMAGE 24,0~/2,24~/40,0~/BEING ACTUALLY CREATED.\
                                                                                                                                                                                                                                                                                                                                                                                                                             6,27/2,67/40,07/<R>ECORDS OF THE SAME AREA FROM \ 9,07/2,97/40,07/DIFFERENT PASSES OF THE SAME SATELLITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3.07/2,37/40,07/SEGMENT ON INTERPRETATION TECHNIQUES.\
                                                                                                                                                          5,27/2,57/40,07/<V>ISUAL COMPARISON OF TWO SATELLITE \
                                                                                                                                                                                                               9.0-/2.9-/40.0-/APART, REVEALS MANY OF THE CHANGED \
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6,07/2,67/40,07/<H>OW ABOUT SOME MORE OPTIONS?
                                  C>LEAR <W>ATER
                                                 D>ARK BARE SOIL
                                                                                                                                                                          7.0-/2.7-/40.0-/IMAGES OF THE <SAME %%%>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,97/2,07/40,07/<SOME MORE HIGHLIGHTS >/
                                                                                                                                                                                                                                                                                                                     20.07/2,207/40,07/<DETECTION%%%%%%%%
                                                                                                                       0,11,/2,0-/40,0-/<CHANGE DETECTION>/
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                                                                    28,30-/2,28-/40,0-/<BLACK>
                                                                                      30.39<sup>-</sup>/2,30<sup>-</sup>/1,39<sup>-</sup>/-/2<mark>2</mark>
                                                 26,0-/2,26-/40,0-/<BLACK
                                  21.07/2.217/40.07/<BLUE
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0,07/2,07/40,07/<POINT TO THE -L-E-T-T-E-R WHICH BEST ANSWERS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28,04/2,284/40,04/<Y>ES! <1>T REPRESENTS HEALTHY VEGETATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5,27/2,57/40,07/2. <T>HE COLOR <RED >ON A COMPOSITE FALSE \
                                                                                                                                                                                                                                        5,27/2,57/40,07/1. <0>N A COMPOSITE FALSE COLOR IMAGE 7,67/2,77/40,07/CLEAR WATER IS SHOWN AS:\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28,0-/2,28-/40,0-/<U>SE THE LIGHT PEN AND TRY HARDER.\
                                                                                                                                                                                                                                                                                                                                                                                           28,0-/2,28-/40,0-/EH! <B>LUE IS THE 'NATURAL' COLOR!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28,0-/2,28-/40,0-/<c>LUE! <L>OTS OF CHLOROPHYL!!!!
                                                                                                                                   28,0-/2,28-/40,0-/<P>DINT TO DNE OF THE CHDICES!
                                          28,0-/2,28-/40,0-/<P>DINT TO DNE OF THE CHOICES
                                                                                                                                                                                                                                                                                                                                                                                                                                      28,07/2,287/40,07/<N>OPE! THAT IS NOT CORRECT\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <S>TRESSED VEGETATION\
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<H>>EALTHY VEGETATION\
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                                                                                                                                                                                                                           2,07/2,27/40,07/ <THE QUESTION>.\
                                                                                                                                                                                                                                                                                                                                                28.07/2,287/40,07/<T>RY AGAIN!!!\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28,0~/2,28~/40,0~/<C>ONCENTRATE.\
                                                                                                                                                                                                                                                                                                    <G>REEN
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                                                                                                                                                                                                                                                                       <B>LUE
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QU123

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28,07/2,287/40,07/<c>ONDITION OF PLANTS IN BIOLOGICAL GARDEND
                                                                                                                                                                                                                                                                                                                                                                     17.0-/2,17-/40,0-/<F>DR EXAMPLE, IN -F-O-R-E-S-T-R-Y, <R>EMOT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29,0-/2,29-/40,0-/<T>HAT'S CORRECT ! <A>LL ARE APPLICATIONS.\
                                                                                                                                                                                                                                                                    4,07/2,47/40,07/<F>IVE AREAS WHERE REMOTE SENSING IS BEING
                                                                                                                                                                                                                                                                                                                                                                                                                                                23,0-/2,23-/40,0-/TO TREES BEING DONE TO THEM BY DISEASE,\
                                                                          28,07/2,287/40,07/<Y>00'RE LOOKING AT A FALSE COLOR IMAGE\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29,0-/2,29-/40,0-/<R>IGHT ON! THEY ARE ALL APPLICATIONS \
                                                                                                                                                                                                                                                                                                       4. <H>YDROLOGY \
5. <M>ETEOROLOGY\
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                                                                                                                                                                                                                                                                                                                                                                                                                              21,0-/2,21-/40,0-/ABBUT THE TYPE AND EXTENT OF DAMAGE
                                                                                                                                                                                                                                                                                                                                                                                                           19,07/2,197/40,07/<S>ENSING IS ABLE TO TELL FORESTERS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29,0-/2,29-/40,0-/<Y>ES - <B>UT THERE ARE SOME MORE\
                                                                                                                                                                                                                                  1,47/2,17/40,07/<APPLICATIONS OF REMOTE SENSING>/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29,07/2,297/40,07/<Y>ES - <B>UT THERE ARE OTHERS\
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<N>ONE OF THE ABOVE.\
                                                                                                                                                                                                                                                                                         6,07/2,67/40,07/APPLIED IN <C>ANADA ARE:\
8,27/2,87/40,07/1. <A>GRICULTURE 4. <H>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25,0-/2,25-/40.0-/AND BY POLLUTION.\
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <A>GRICULTURE\
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                                                                                                                 28,07/2,287/40,07/<P>DINT TO 1C/
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SEG4C

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18.07/2,187/40,07/GRID TO THE <W>INNIPEG (<D>ECEMBER) IMAGE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4,07/2,47/40,07/PARENT <G>RID ON THE <W>INNIPEG (<A>UGUST)\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11,07/2,117/40,07/CORRECTLY. <N>UMBER 1 SHOULD APPEAR IN \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13,07/2,137/40,07/THE UPPER LEFT HAND CORNER.\
16.27/2,167/38,27/<L>ATER, YOU WILL BE ASKED TO MOVE THE \
                                                                                                                                                                                                                                                                                                                                           ',0-/2,7-/40,0-/<F>OR THIS SEGMENT, YOU WILL REQUIRE THE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3,0-/2,3-/40,0-/<Y>OU WILL BE ASKED A SERIES OF QUESTIONS\
                                                                                                                                                                                                                                                                                                                                                                                           <C A I L>ANDSAT <C>URRICULUM <K>IT\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20,07/2,207/40,07/FOLLOWING THE SAME PROCEDURE OUTLINED \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,2/2,0-/38,2-/<W>OULD YOU PLEASE OPEN YOUR CURRICULUM \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <A >COMPOSITE FALSE COLOR IMAGE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8,47/2,87/40,07/1. <A >COMPOSITE FALSE COLOR IMAGE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9,2/2,9-/38,2-/<B>E SURE THAT THE <G>RID IS ALINED \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2,0-/2,2-/40,0-/KIT TO PAGE TWO AND PLACE THE TRANS-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5,0-/2,5-/40,0-/TO WHICH YOU MAY RESPOND USING THE 7,0-/2,7-/40,0-/KEYBOARD OR LIGHTPEN RESPECTIVELY.\
                                                                                                                                                                                                                                                                                                                 4,07/2,47/40,07/<LANDSAT IMAGERY INTERPRETATION >/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <W>INNIPEG (<A>UGUST 1976)\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 O,47/2,07/40,07/<LANDSAT IMAGERY INTERPRETATION >/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16,8-/2,16-/40,0-/<W>INNIPEG (<D>ECEMBER 1975).
20,4-/2,20-/40,0-/3. <A >ROAD MAP OF <W>INNIPEG
                                                                    29,0-/2,29-/40,0-/<Y>DUR GUESSING <T>RY<A>GAIN\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <A >TRANSPARENT <G>RID\
                     29,07/2,297/40,07/<8>00 <H>ISSI!! <T>0 <Y>0U/
                                                                                                                                                                                                                                                                                                                                                                                                                 <M>ASAIFYING GLASS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COPY-/DRWBCX-2-, DRWBCX-23-, SDRAW-6/
                                                                                           COPY-/DRWMEV-2-, DRWMEV-17-, SDRAW-5/
                                                                                                                                                                                                                                                                                                                                                                  9,0-/2,9-/40,0-/FOLLOWING ITEMS:\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5,07/2,57/40,07/FOLLOWING ITEMS:/
                                                                                                                                                                                                                                                                                                                                                                                                                                            <P>ATIENCE
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                                                                                                                                                                                                                   EPI 30,39-/2,30-/1,39-/-/17Z
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30,39-/2,30-/1,39-/-/72/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22,01/2,221/40,01/ABOVE.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6.01/2.61/40.01/MAP.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14,47/2,147/40,07/2.
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2.24.40.01/WT\
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                                                                                                                   DRWMEV-/O-.O/
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19,0-/2,19-/40,0-/<U>SE A ONE OR TWO DIGIT NUMBER -0-N-L-Y IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6,12-/2,6-/40,0-/<QUESTION NO>. 2. \ 12,0-/2,12-/40,0-/<W>HAT DO THE STRAIGHT LINES ON THE -I-M-A-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ROADS RAILWAYS RAILROADS HIGHWAYS ROAD RAILWAY BOUNDARIES-/B1
                                                                                                                                                                                                                                                                                                                                                                                              14.0-/2,14-/40,0-/<T>HE CITY OF <W>INNIPEG IS LOCATED WITHIN
                                                                                                   21,07/2,217/40,07/IF YOU ARE STILL BAFFLED, YOU CAN REFER \
10,0-/2,10-/40,0-/<P>LEASE PAY CLOSE ATTENTION TO WHAT IS
                                                            17.0-/2,17-/40,0-/<S>HOULD YOU NEED ASSISTANCE, YOU WILL\
                                                                                 19,07/2,197/40,07/RECEIVE SOME REMEDIAL INSTRUCTION OR\
                  12.0-/2.12-/40.0-/BEING ASKED, AND THINK THROUGH YOUR \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14,0-/2,14-/40,0-/COVERED BY <G>RIDS 1 AND 2 INDICATE?\
                                                                                                                                                                                                                                                                                                               2,07/2,27/40.07/<L>ETS START WITH AN EASY QUESTION TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SQ-/W1-/(3+4+5+6+7+8+9+10)\
28,0-/2,28-/40,0-/<T>HE CITY HAS AN AQUA/BLUE COLOR.\
                                       14.0-/2,14-/40,0-/ANSWER CAREFULLY BEFORE REPLYING.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23,07/2,287/40,07/<C>OME ON! <I >SAID IT WAS EASY.\
                                                                                                                                                                                                                                                                                                                                                                                                                                        16,0-/2,16-/40,0-/WHAT GRID NUMBER ON THE IMAGE? \
                                                                                                                       23,07/2,237/40,07/TO THE <W>INNIPEG ROAD MAP. \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28,07/2,287/40,07/<Y>0U'RE ON YOUR WAY!\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28,07/2,287/40,07/<S>CAN GRIDS 6 TO 10/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24,2/2,24/40,0/600/99/QUIZ4 -C11/
                                                                                                                                                                                      11,11-/2,11-/40,0-/<BONNE CHANCE>!!!/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COPY-/DRWATP-2-, DRWATP-45-, SDRAW-4\
                                                                                                                                                                                                      DT 15,11-/2,15-/40,0-/<600D LUCK>!!!\
EPI 30,39-/2,30-/1,39-/-/1-/ZZ\
                                                                                                                                                                                                                                                                                                                                                                           8,12-/2,8-/40,0-/<QUESTION NO>. 1/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21,07/2,217/40,07/YOUR ANSWER.\
<G>RID 8 1 2 3 4 5 6 7 9 12 7/B1\
                                                                                                                                                                                                                                                                                                                                    4,07/2,47/40,07/GET YOU ORIENTED.
                                                                                                                                             30,39-/2,30-/1,39-/-/1/22/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DRWATP-/0-,0/
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28,07/2,287/40,07/<H>INT! <A >TRANSPORTATION CULTURAL FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28,0-/2,28-/40,0-/<1>HINK IN TERMS OF COMPOSITE FALSE COLORS/
                                                                                                                                                                                                                                                                                                                                                                            10.0-/2.10-/40.0-/<W>HAT DDES THE LARGE BLACK AREA IN \ 12.0-/2.12-/40.0-/<6>RID 3 INDICATE?\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28,07/2,287/40,07/<G>REAT! <Y>DUR'RE DDING JUST FINE.\
                                                                                                                                                                                                                                                                                                                                                                                                           16,07/2,167/40,07/<P>LEASE USE A TOTNTE WORD ANSWER.\
WATER LAKE SWAMP LAKE <W>INNIPEG LAKE <M>ANITOBAT/81\
19,27/2,197/40,07/6007/997/QUIZ48-009\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28,0-/2,28-/40,0-/<W>ATER APPEARS BLACK OR BLUE \
                                                                                                               28,0-/2,28-/40,0-/<T>HINK ABOUT TRANSPORTATION
                                                                                    28,07/2,287/40,07/<Y>ES ROADS AND RAILRDADS .\
SQ7/W17/(7)/
                            28,0-/2,28-/40,0-/<L>DOK CLOSELY AT <G>RID 2 \
                                                                                                                                                                                        28,07/2,287/40,07/<T>YPE ROAD OR RAILROADS\
20.2-/2.20-/40.0-/600-/99-/QUIZ4A-006\
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                                                                                                                                                                                                                                                                                            30,397/2,307/1,397/-/727/
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                                                                      501/001/(1+2+3+4+5+6)/
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28,0~/2,28~/40,0~/<8>INGO! <F>ARMLAND WITH ALL TYPES OF CROPS
                                                                                                                                                                                                                                                                                                                                                                                                                                            12,01/2,12/40,01/<W>HAT DOES THE REDNESS IN THE SOUTH ENDS \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28,0~/2,28~/40,0~/<H>INT! <R>ED INDICATES A TYPE OF VEGETATIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28,0~/2,28~/40,0~/<Y>OU NORMALLY FIND THIS NEAR A LAKES END\
             6,0-/2,16-/40,0-/<W>HAT ARE THE LITTLE RECTANGLES ARDUND
                                                                                                                  28,0-/2,28-/40,0-/<T>HINK ABOUT WHERE PRODUCE IS GROWN.\
                                                                                                                                                                                                                                                                       28,0-/2,28-/40,0-/<H>INT! <W>HERE VEGETABLES ARE GROWN.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                            14.0-/2,14-/40,0-/0F <L>AKES <M>ANITOBA AND <W>INNIPEG
                                               20,01/2,201/40,01/<P>LEASE USE A 101/1 WORD ANSWER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MARSH MARSHES MARSHLAND VEGETATION WEEDS SWAMP-/81/
                                                                                                                                                                                                                                     28,0~/2,28~/40,0~/<H>INT! <C>ROPS ARE GROWN ON?\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28,0-/2,28-/40,0-/<Y>ES <M>ARSHES OR MARSHLAND\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28,0-/2,28-/40,0-/<L>OOK AT <G>RIDS 1 AND 3\
                               18.0-/2,18-/40,0-/THE CITY OF <W>INNIPEG?\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20,2-/2,20-/40,0-/600-/99-/QUIZ4D-009\
                                                                                24,21/2,241/40,01/6001/991/QUIZ4C-008\
                                                                FARM FIELD CROPS FARM LAND PLOTS-/81/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COPY-/DRW2DG-2-, DRW2DG-19-, SDRAW-1/
                                                                                                                                                                                                                                                                                                                                                                                                          6,12,6-/40,0-/<QUESTION NO>. 6
                                                                                                                                                                                                                                                                                                        28.0-/2.28-/40.0-/<T>YPE FARMLAND\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         XP-/2-/16-/3-/<RIGHT ON TARGET>!\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28.07/2.287/40,07/TYPE MARSHLAND\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16,07/2,167/40,07/INDICATE?\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30,391/2,301/1,391/1/22/
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                                                                                                                                                                   SQ-/CO-/(1+2+3+(4.5))/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SQ-/CO-/(1+5+3+4)/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SQ1/W11/(4+5+6)/
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                                                                                                                                                                                                                        \(9)/r1M/r0S
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OUIZ4E

26

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FOREST CLEARING CUT FOREST LUMBERING WOOD CUTTING CLEARED LAN
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                                                                                                                                                                                                                                                                                                   28,0-/2,28-/40,0-/<H>DUSES ARE A BYPRODUCT OF THIS INDUSTRY!\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6,07/2,67/40,07/<L>ANDLOTS ALONG THE <R>ED AND <A>SSINIBOINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16,0-/2,16-/40,0-/<I>N <6>RID 7 YOU CAN SEE SOME BLACK \ 18,0-/2,18-/40,0-/RECTANGLES. <W>HAT ARE THEY EVIDENCE OF?\
                                                                                                                                                                                                                     28,07/2,287/40,07/<Y>ES! <E>VIDENCE OF FOREST CLEARING.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8,0-/2,8-/40,0-/<R>IVERS ARE LAID OUT IN PARALLEL \
10,0-/2,10-/40,0-/RECTANGLES FRONTING ON THE <R>IVERS.\
18,2-/2,18-/40,0-/-1\
                                      14,0-/2,14-/40,0-/<W>HAT DO THE PATCHES OF WHITE ALONG 16,0-/2,16-/40,0-/THE <W>INNIPEG <R>IVER INDICATE?\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28,0-/2,28-/40,0-/<c>LUE! <F>RENCH LONG LOT SYSTEM!
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28,07/2,287/40,07/<Y>ES! <P>ARALLEL RECTANGLES.\
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                                                                                                                                                                                                  SQ-/CO-/(1.2)+(3.4)+5(6.7)+(8.9)+(10.11))\
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28,0-/2,28-/40,0-/<P>LEASE WORK FASTER\
                                                                                                                    22,2-/2,22-/40,0-/600-/99-/QUIZ4E-007\
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                                                                                                  D BARE SOIL NO CROP SUMER FALOW-/B1/
8,147/2,87/40,07/<QUESTION NO>. 8\
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                                                                                                                                                             28,0-/2,28-/40,0-/<L>DOK AGAIN!\
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QUIZ4G

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19,07/2,197/40,07/ATION EASIER. <I>N ORDER TO BRING THIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9,07/2,97/40,07/IS NEEDED. <8>Y IDENTIFYING KEY FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12,0-/2,12-/40,0-/ON EACH IMAGE THAT YOU CAN LOOK FOR, WE/
16,0-/2,16-/40,0-/HOPE IT MAKES THE TASK OF INTERPRET-\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21,2,2/2,21-/40,0-/CHLOROPHYL SHOWS AS RED IN THESE IMAGES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11.0-/2,11-/40,0-/IMAGE ARE WATER. <T>HE BLUE INDICATES 13.0-/2,13-/40,0-/PARTICLES IN THE WATER WHICH CAN RANGE
                                                                                                                                                                                                                                                                                                                                                                                                                0,27/2,07/40,07/<N>OW THAT YOU HAVE HAD A CHANCE TO LOOK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11,07/2,117/40,07/CENTERED AT THE RIVER JUNCTIONS. <T>HE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,0-/2,0-/40,0-/-w>HITE PATCHES THAT APPEAR LARGER THAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.07/2,07/40,07/<1>T TAKES A LITTLE PRACTICE BEFORE YOU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3,0-/2,3-/40,0-/CAN READILY PICK OUT KEY FEATURES ON A \ 6,0-/2,6-/40,0-/<L>ANDSAT IMAGE. <S>OMETIMES A LITTLE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13,0-/2,13-/40.0-/COLORS IN THE FIELDS AROUND THE CITY \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15,0-/2,15-/40,0-/FROM SEDIMENTATION TO FORMS OF WATER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6,0-/2,6-/40,0-/AND ARE PASTURES.\
9,0-/2,9-/40,0-/<T>HE BLUISH - BLACK PORTIONS OF THE \
                                                                                                                                                    28,0-/2,28-/40,0-/<8>LACK RECTANGLES INDICATE NO CROPS\
                                                                                                                                                                                                                                                                                                                                                                                                                                   2,07/2,27/40,07/AT THE <W>INNIPEG IMAGE, HERE ARE SOME\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9,2-/2,9-/40,0-/<a>S YOU CAN SEE, THE CITY IS ALMOST \
                                                                                                       28,0-/2,28-/40,0-/<Y>ES! BARE SOIL OR SUMMER FALLOW
                                                                                                                                                                                                                                                                                                                                                                                                                                                      4.07/2,47/40,07/ADDITIONAL THINGS YOU CAN LOOK FOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2,07/2,27/40,07/0THER FIELDS, APPROXIMATELY 1.6MM.\ 4,07/2,47/40,07/ARE THE SIZE OF A SECTION OF LAND.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19,2-/2,19-/40,0-/<R>ED - <F>ULL STANDING CROPS.
                                                                                                                                                                                               28,0-/2,28-/40,0-/<B>LACK RECTANGLES%%%%%%%%%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27,2-/2,27-/40,0-/THE HARVEST IS UNDER WAY.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15,0~/2,15~/40,0~/INDICATE THE FOLLOWING:\
                                           28,07/2,287/40,07/<Y>DU RAN DUT OF TIME\
24,2-/2,24-/40,0-/600-/99-/QUIZ4G-007\
                                                                                                                                                                                                                                                            28,07/2,287/40,07/<T>YPE BARE SOIL\
                                                                                   SQ-/CO-/(1+(2.3)+(4.5)+(6.7))-/B1\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17.0-/2,17-/40,0-/POLLUTION.\
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                                                                                                                                                                                                                   NNOT INDICATE WATER. \
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28

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SQ-/C3-/((1.2)+(3.4)+(5.6.7))\
28,O-/2,28-/40,O-/<Y>ES! THEY RUN IN A NORTH SDUTH DIRECTION\
                                                                                                                                                                                                                                                                                                                                                                                            17,0-/2,17-/40,0-/HAVE A BLUISH TINGE. <I>T IS NDTICEABLE \
                                                                                                                                                                                                                                                                                                                                                                              14,0-/2,14-/40,0-/IS DEVDID OF GREEN VEGETATION, IT CAN \
                                                                                                                                                                                                                                                                                           2.0-/2.2-/40.0-/<PAGE >3 (<THE WINNIPEG DECEMBER>) <MAP>\
4.0-/2.4-/40.0-/<N>UMBER 1 SHQULD APPEAR IN THE TOP LEFT
30.39-/2.30-/1.39-/-/1-/zz\
                                                                  4,0-/2,4-/40,0-/<P>LEASE PDINT TO YOUR CHOICE WITH THE \
                                                                                                                                                                                                                                                                               0.07/2,07/40,07/<PLEASE PLACE THE TRANSPARENT GRID ON >/
         22,0-/2,22-/40,0-/POINT HOME, HOW ABOUT ANOTHER OF OUR \
                                                                                                                                                                                                                                                                                                                                                    8,0-/2,8-/40,0-/<W>HEN A MAJDR PORTIDN DF A <L>ANDSAT
                                                                                                                                                                                                                                                                                                                                                                11,07/2,117/40,07/BAND 8 INFRA-RED FALSE CDLDR IMAGE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18,0-/2,18-/40,0-/STRIATIONS(ICE SCRATCHES)ORIENTED?\
NORTH SDUTH N S NDRTH TO SOUTH EAST WEST E W-/B1\
                                                                                                                                                                                                                                       28,07/2,287/40,07/<P>DINT TO DNE OF THE CHOICES.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28,07/2,287/40,07/<L>DDK AT <G>RID 2 GOING SOUTH\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16,0-/2,16-/40,0-/<I>N WHAF DIRECTIONS%%%%%%%%%
                                                                                                                                                     28,0-/2,28-/40,0-/<P>DINT TO ONE OF THE CHOICES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28,0-/2,28-/40,0-/<T>RY ANDTHER DIRECTION!!!/
                                                                                             16.3-/2,16-/40,0-/-A <R>EPEAT THIS SECTIDN.
                                                                                                           <! >WANT TO CONTINUE.
                                                                                                                                                                                                                                                                                                                                                                                                          20,07/2,207/40,07/0N THIS WINTER IMAGE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28,0~/2,28~/40,0~/<L>ODK CLDSELY!\
                        25.0-/2,25-/40,0-/dPTIGNS?\
30,39-/2,30-/1,39-/-/-/ZZ/
                                                                                                                                                                                                                                                                                                                                                                                                                         30,39-/2,30-/1,39-/-/1/2Z/
                                                                                7,0-/2,7-/40,0-/LIGHTPEN.\
                                                                                                           24,37/2.247/40,07/78
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10,0-/2,10-/40,0-/<T>HIS <L>ANDSAT INFRARED FALSE COLOR IMAGE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13,0-/2,13-/40,0-/<G>RIDS 5 10 AND 15 APPEAR PREDOMINATELY \ 15,0-/2,15-/40,0-/<RED >IN COLOR. <W>HAT IS THIS EVIDENCE OF
                                                                                                                                    11,0~/2,11~/40,0~/<N>AME ONE <G>RID THAT SHOWS EVIDENCE OF 13,0~/2,13~/40,0~/0PEN WATER AND FROZEN WATER.\<G>RID 3 1 2 4 5 6 7 8 9 13~/81\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28,07/2,287/40,07/<E>XACTLY CONIFERS AND DECIDUOUS TREES.\
                                                                                                                                                                                                                                                                                                            28,0-/2,28-/40,0-/<L>DOK CLOSELY AT THE TWO BIG LAKES.\
                                                                                                                                                                                                                        28,0-/2,28-/40,0-/SLOW POKE! <T>RY AND RESPOND FASTER!\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28,0~/2,28~/40,0~/<T>HERE ARE TWO MAIN TYPES OF TREES\
                                                                                                                                                                                                                                                                        28,07/2,287/40,07/<Y>ES! <L>AKE <W>INNIPEG HAS BOTH.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28,0-/2,28-/40,0-/<I >AM LOOKING FOR A TYPE OF TREE\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CONIFER CONIFEROUS DECIDUOUS TREE VEGETATION-/B1/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24,2/2,24~/40,0~/600~/99~/QUIZ5B-007\
                                                                                                                                                                                       18,27/2,187/40,07/6007/997/QUIZ5A-007/
                                                                                                                                                                                                                                                                                                                                            28,07/2,287/40,07/WATER APPEARS BLACK\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28.0-/2.28-/40.0-/<H>URRAY PLEASE!\
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                                                                                                   5,12,67/40,07/<QUESTION NO>. 2/
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                             30,39-/2,30-/1,39-/-/1/22/
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                                                                                                                                                                                                                                                         SQ-/CO-/(2)/
DRWOTX-/0-,0/
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0,0-/2,0-/40,0-/2. <I>N THE SOUTH OF THE CITY OF <W>INNIPEG\ 3,3-/2,3-/37,3-/THE DARK RED PATCHES ARE PARKLAND. \ 6,0-/2,6-/40,0-/3. <G>LACIAL STRIATION IS VERY NOTICEABLE.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15,37/2,157/37,37,37/IMAGE IS A STATIC LINE. <S>TATIC LINES \ 18,27/2,187/38,27/ ARE OCCASIONALLY PRODUCED IN THE \
                                                                                                                                                                                                                                                                                                                                                                                  28,0-/2,28-/40,0-/<Y>ES! <T>HERE IS ALMOST NO VEGETATION.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9,07/2,97/40,07/0CENE AGE <L>AKE <A>GASSIZ IS NOTICEABLE. 12,07/2,12,12,40,07/<W>INNIPEG IS IN THE MIDDLE OF THIS \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21,37/2,217/37,37,37/TRANSMISSION BETWEEN THE SATELLITE AND \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12.0-/2,12-/40,0-/YOU'RE ALREADY ON YOUR WAY TO BECOMING\
15.0-/2,15-/40,0-/AN EXPERT IN <L>ANDSAT IMAGE INTERPRET-\
18.0-/2,18-/40,0-/ATION.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9,0-/2,9-/40,0-/4. <A >THIN SCRATCH-LIKE LINE RUNNING \ 12,3-/2,12-/37,3-/FROM TOP TO BOTTOM NEAR THE CENTER OF \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9,07/2,97/40,07/YOU HAVE BEEN QUIZZED ON. <1>F YOU HAVE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28,0-/2,28-/40,0-/<H>INT! <L>00K FOR LOSS OF CHLOROPHYL.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22,37/2,227/40,07/<H>ERE ARE SOME ADDITIONAL THINGS THAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6,27/2,67/40,07/1. <T>HE LAKE BED AND SHORES OF PLIEST-\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,27/2,07/40,07/<Y>OU PROBABLY HAVE NOTICED SIGNIFICANT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,07/2,07/40,07/<E>XAMINATION OF BOTH THE <W>INNIPEG N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25,07/2,257/40,07/YDU CAN EXAMINE ON THE <W>INNIPEG \
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12.07/2.127/40,07/HAS A BLUISH TINGE BECAUSE IT IS
                                 14.0-/2,14-/40,0-/PARTIALLY DEVOID OF VEGETATION.
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                                                                          16,07/2,167/40,07/POINT TO TO 08
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O.3-/2.0-/40.0-/<LANDSAT IMAGE ANALYSIS EQUIPMENT%%%%%%%%%%
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16,07/2,167/40,07/<A>LBERTA <R>EMOTE <S>ENSING <C>ENTER, HERE
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m
                                                                             16.0-/2.16-/40.0-/DETECTED AND ALLOW FOR QUICK COMPARISON.\
20.0-/2.20-/40.0-/-A <I >WOULD LIKE TO REVIEW THIS SECTION:
                                                                                                                                             <P>UT THE NEXT SEGMENT ON THE SCREEN.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13.2-/2,13-/40,0-/2. <L>ANDSAT <I>MAGERY <V>IEWER - <A >32<X
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19.3-/2.19-/40.0-/IMAGERY FROM MICROFICHE RECEIVED FROM \ 22.3-/2.22-/40.0-/THE <P>RINCE <A>LBERT RECEIVING STATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,27/2,07/40,07/3. <M>ULTISPECTRAL <V>IEWER - <A >VIEWER/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.07/2,107/40,07/FOLLOWING IMAGE ANALYSIS EQUIPMENT IS \
                                                         12.0-/2,12-/40.0-/FROM SEASON TO SEASON CAN ACTUALLY BE \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16,2-/2,16-/40,0-/4. <M>ICRODENSITOMETER - <A >32 COLOR \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,27/2,07/40,07/1. <T>RANSFERSCOPE - ENLARGES OR REDUCES
                                                                                                                                                                                                        28,07/2,287/40,07/<P>LEASE POINT TO ONE OF THE CHOICES.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22.3-/2.22-/40.0-/AT THE VARIOUS GREY TONES AND BRIGHT-\
                                                                                                                                                                                                                                                                                                                                                                                                                                                   4,27/2,47/40,07/<T>O HELP YOU STRENGTHEN YOUR SKILLS IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16.37/2.167/40.07/ENLARGMENT VIEWER TO ASSESS <L>ANDSAT
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                                    9,07/2,97/40,07/MANY OF THE CHANGES THAT TAKE PLACE \
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               6.0-/2,6-/40,0-/BROUGHT HOME TO YOU THE FACT THAT \
                                                                                                                                                                                                                                                                                                                                28,0-/2,28-/40,0-/<P>DINT TO ONE OF THE CHOICES.\
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0,07/2,07/40,07/5. <D>ATA <T>ERMINALS - <A>N ON-LINE TERMINAL
                                                                                                                            3,17/2,37/40,07/LINKED TO THE <C>ANADA <C>ENTRE FOR <R>EMOTE
                                                                                                                                                                                                                                                                                                                                                                                           <S>OCK IT TO ME AGAIN
                                                                                                                                                                                                                                                                                                                                                                                                                              <I >REMEMBER-<I >WOULD LIKE TO GO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,2-/2,0-/40,0-/<W>HICH OF THE FOLLOWING ARE <E>XAMPLES OF\
              25,37/2,257/40,07/NESS LEVELS OF AN IMAGE ARE CONVERTED \ 28,37/2,287/40,07/TQ COLORS AND ARE DISPLAYED ON A <CRT>.
                                                                                                                                                              6,17/2,67/40,07/<S>ENSING IN <0>TTAWA WHICH ALLOWS USERS
                                                                                                                                                                                                 12,1-/2,12-/40,0-/DOCUMENTS ON REMOTE SENSING AND DATA
                                                                                                                                                                                                                                                                                                                                0,07/2,07/40,07/<W>ELL THAT WAS CERTAINLY A BUNDLE OF
                                                                                                                                                                                 9,17/2,97/40,07/AT TN-0 TC-0-3-T TO OBTAIN TECHNICAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30,47/2,307/40,07/<Y>ES! BUT THAT'S ONLY ONE OF THEM\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29,0-/2,29-/40,0-/<Y>DU TOOK TOO LONG IN ANSWERING\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28,0-/2,28-/40,0-/<P>OINT TO ONE OF THE CHOICES.\
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                                                                                                                                                                                                                                                                                                                                                     3,07/2,37/40,07/TECHNICAL JARGON!! <H>OPE YOU \
                                                                                                                                                                                                                   15,17/2,157/40,07/0N SPECIFIC <L>ANDSAT SCENES.
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                                                                                                                                                                                                                                                                                                                                                                                           <I >FORGOT!
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30,4~/2,30~/40,0~/<C>ORRECT!\
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                                                   30,39-/2,30-/1,39-/-/1/22/
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23,0-/2,23-/40,0-/2. <S>ATELLITE <0>PERATIONS - UNDER WHICH \ 25,3-/40,0-/SATELLITE DATA ARE RECEIVED, PROCESSED\
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4,4-/2,4-/40,0-/<T>HE <A>LBERTA <R>EMOTE <S>ENSING <C>ENTER
                                                                     30,47/2,307/40,07/<P>DINT TO DNE OF THE CHOICES ON SCREEN.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10,0-/2,10-/40,0-/FACILITIES OF THE <C>ANADA <C>ENTRE FOR \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - UNDER -
                                                                                                                                                                                                                   4,2-/2,4-/38,2-/<T>HE '<CCRS>' WAS ESTABLISHED IN 1972 TO\
                                                                                                                                                                                                                                                                                                                           19,37/2,197/40,07/USES FOR REMOTE SENSING ARE DEVELOPED.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2,0-/2,2-/40,0-/0FFERS THE FOLLOWING FACILITIES -F-R-E-E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <E>DUCATION AND TRAINING PROGRAMS\
                                                                                                                                                                                                                                                                      10;27/2,107/38,27/<T>HE ACTIVITIES OF THE <CCRS >CAN BE
                                                                                                                                                                                                                                                                                                          17,0-/2,17-/40,0-/1. <a>PPLICATIONS - UNDER WHICH NEW \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <T>ECHNICAL INFORMATION SERVICE \
<L>ANDSAT ORDER FACILITY\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16,0-/2,16-/40,0-/IS ALSO IN CLOSE CONTACT WITH REMOTE
                                                                                                                                                                                                 0,07/2,07/40,07/<THE CANADA CENTRE FOR REMOTE SENSING>/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14,2-/2,14-/40,0-/4. <U>SER <S>ERVICES - UNDER WHICH \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19,0-/2,19-/40,0-/SENSING AGENCIES THROUGHOUT <N>ORTH \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16,0-/2,16-/40,0-/FACILITIES AND TECHNICAL INFORMATION
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,07/2,07/40,07/<THE ALBERTA REMOTE SENSING CENTER >/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4,0-/2,4-/40,0-/0F CHARGE TO ANYONE IN THE PROVINCE:\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8,07/2,87/40,07/AND NEW SENSORS AND DATA ACQUISITION
                                                                                                                                                                                                                                  6.07/2,67/40,07/FURTHER THE DEVELOPMENT AND USE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6,07/2,67/40,07/WHICH NEW DATA ANALYSIS METHODS \
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4,27/2,47/40,07/3. <R>ESEARCH AND <D>EVELOPMENT
                                                                                                                                                                                                                                                                                        12.0-/2,12-/40,0-/DIVIDED INTO FOUR CATEGORIES:\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8,2-/2,8-/40,0-/1. <I>NTERPRETATION EQUIPMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10,0-/2,10-/40,0-/SYSTEMS ARE DEVELOPED, AND \
                                   30,47/2,307/40,07/<N>0! <T>HAT'S NOT RIGHT.\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <A>IRBORNE PROGRAM\
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6,2-/2,6-/40,0-/<T>HE <A>LBERTA <C>ENTER FOR <R>EMOTE <S>ENSI
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                                                                                                                                                                   23,07/2,237/40,07/<C>ONTACT <M>R. <C>AL <B>RICKER \
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CAP 4,16,40,0-/CO\
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17,0-/2,17-/40,0-/<E>DMONTON, <A>LBERTA.\
20,0-/2,20-/40,0-/<T>ELEPHONE (403) 427-2381\
                                                                                                                                                                                                                                                                                                                      <L>ET ME CONTINUE.\
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<S>IGN OFF NOW AND TAKE AN IN-CLASS \
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DTI 20,7-/2,20-/40,0-/TAKE THE IN-CLASS EXAMINATION.\
DTI 24,3-/2,24-/40,0-/-c. <R>EVIEW THE ENTIRE COURSE BEFORE
                                                                                                                                                                                                                                                                                           123 DTI 18,0-/2,18-/40,0-/SCREEN DISPLAY. <P>LEASE USE THE \ 124 DTI 21,0-/2,21-/40,0-/LIGHT PEN TO POINT TO YOU PARTICULAR \
                                                                                                                                                                                                                     6.07/2,67/40,07/<Y>DU HAVE JUST COMPLETED THE COURSE!!!\
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                                                                                                                         COPY-/DRWMDG-2-, DRWMDG-55-, SDRAW-4/
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